HT-E4500

5.1CH Blu-ray™ Home Entertainment System

user manual

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To receive more complete service,
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www.samsung.com/register

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HT-E4500_ZA_0417-1(D2D).indd 1 2012-04-17 오후 6:23:41

Safety Information

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
The lighting flash and Arrowhead within the triangle is a warning sign alerting you of dangerous voltage inside the product.	**CAUTION**: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

FCC NOTE (for U.S.A)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This class B digital product meets all requirements of the Canadian Interference - Causing Equipment Regulations.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Complies with 21CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

DANGER :

- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)

CAUTION :

- CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM (IEC 60825-1)
- THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CLASS 1	**LASER PRODUCT**
KLASSE 1	**LASER PRODUKT**
LUOKAN 1	**LASER LAITE**
KLASS 1	**LASER APPARAT**
PRODUCTO	**LÁSER CLASE 1**

HT-E4500_ZA_0417-1(D2D).indd 2 2012-04-17 오후 6:24:37

Precautions

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below.
Keep these operating instructions handy for future reference.

1 . Read these instructions.
2 . Keep these instructions.
3 . Heed all warnings.
4 . Follow all instructions.
5 . Do not use this apparatus near water.
6 . Clean only with a dry cloth.
7 . Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8 . Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including AV receivers) that produce heat.
9 . Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10 . Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where it exits the apparatus.
11 . Only use attachments/accessories specified by the manufacturer.
12 . Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13 . Unplug this apparatus during lightning storms or when unused for long periods of time.
14 . Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Disc Storage & Management

- Holding Discs
  - Fingerprints or scratches on a disc may reduce sound and picture quality or cause skipping.

  - Avoid touching the surface of a disc where data has been recorded.
  - Hold the disc by the edges so that fingerprints will not get on the surface.
  - Do not stick paper or tape on the disc.
- Cleaning Discs
  - If you get fingerprints or dirt on a disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

  - When cleaning, wipe gently from the inside to the outside of the disc.
  - Disc Storage
    - Do not keep in direct sunlight.
    - Keep in a cool ventilated area.
    - Keep in a clean protection jacket and store vertically.

Handling Cautions

- Do not expose this apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases, on the apparatus.
- To turn this apparatus off completely, you must pull the power plug out of the wall socket. Consequently, the power plug must be easily and readily accessible at all times.
- Do not touch the power plug with a wet hand. It can cause an electric shock.

HT-E4500_ZA_0417-1(D2D).indd 3 2012-04-17 오후 6:24:37

- Do not plug multiple electric devices into the same wall socket. Ovedrloading a socket can cause it to overheat, resulting in a fire.
- Maintenance of the Cabinet
  - Before connecting other components to this product, be sure to turn them off.
  - If you move your product suddenly from a cold place to a warm place, condensation may occur on the operating parts and lens and cause abnormal disc playback. If this occurs, unplug the product, wait for two hours, and then connect the plug to the power outlet. Then, insert the disc, and try to play back again.
- If the product makes an abnormal noise or produces a burning smell or smoke, turn off the power switch immediately and disconnect the power plug from the wall outlet. Then, contact the nearest customer service center for technical assistance. Do not use the product. Using the product as it is may cause a fire or an electric shock.
- To turn this apparatus off completely, you must pull the power plug out of the wall socket. Consequently, the power plug must be easily and readily accessible at all times.

Using the 3D Function

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D PICTURES.
Read and understand the following safety information before using the 3D function.

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea, and headaches.
  If you experience any such symptom, stop viewing 3D TV, remove the 3D Active Glasses, and rest.
- Watching 3D images for an extended period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV, remove your 3D Active Glasses, and rest.
- A responsible adult should frequently check on children who are using the 3D function.
  If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.
- Do not use the 3D Active Glasses for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)
- Do not use the 3D function or 3D Active Glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may cause you to bump into objects, trip, and/or fall, and cause serious injury.
- If you want to enjoy 3D content, connect a 3D device (3D compliant AV receiver or TV) to the product's HDMI OUT port using a high-speed HDMI cable. Put on 3D glasses before playing the 3D content.
- The product outputs 3D signals only through HDMI cable connected to the HDMI OUT port.
- As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you can not change the resolution to your preference.
- Some functions such as BD Wise, screen size adjustment, and resolution adjustment may not operate properly in 3D play mode.
- You must use a high-speed HDMI cable for proper output of the 3D signal.
- Stay at least three times the width of the screen from the TV when watching 3D images. For example, if you have a 46 inch screen, stay 138 inches (11.5 feet) from the screen.
  - Place the 3D video screen at eye level for the best 3D picture.
- When the product is connected to some 3D devices, the 3D effect may not function properly.
- This product does not convert 2D content into 3D.
- "Blu-ray 3D" and "Blu-ray 3D" logo are trademarks of the Blu-ray Disc Association.

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HT-E4500_ZA_0417-1(D2D).indd 4 2012-04-17 오후 6:24:38

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- iPad, iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.
- This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.
  More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA."
  This product incorporates proprietary technology under license from Verance Corporation and is protected by U.S. Patent 7,369,677 and other U.S. and worldwide patents issued and pending as well as copyright and trade secret protection for certain aspects of such technology. Cinavia is a trademark of Verance Corporation. Copyright 2004-2010 Verance Corporation. All rights reserved by Verance. Reverse engineering or disassembly is prohibited.
- Open Source License Notice
  - In the case of using open source software, Open Source Licenses are available on the product menu.

HT-E4500_ZA_0417-1(D2D).indd 5 2012-04-17 오후 6:24:39

Contents

SAFETY INFORMATION

2 Warning
3 Precautions
3 Disc Storage & Management
3 Handling Cautions
4 Using the 3D Function
4 Copyright
5 License

GETTING STARTED

7 Disk and Format Compatibility
8 Logos of Discs the product can play
11 Accessories
12 Front Panel
12 Rear Panel
13 Remote Control

CONNECTIONS

15 Connecting the Speakers
15 Speaker Components
16 Connecting The Speakers
17 Connecting the FM Antenna
17 Connecting to an iPod/iPhone
17 Attaching the Toroidal Ferrite Core to the Power Cord of the Main Unit
18 Connecting to a TV
18 **Method 1** Connecting to a TV with an HDMI Cable - Best Quality (Recommended)
18 **Method 2** Connecting to a TV with a Video Cable - Good Quality
19 Connecting to External Devices
19 **Method 1** AUX IN : Connecting an External Analog Component
19 **Method 2** OPTICAL : Connecting an External Digital Audio Component
20 Connecting to a Network Router
20 Wired Network
20 Wireless Network

SETTINGS

21 The Initial Settings Procedure
22 The Home Screen
23 Accessing the Settings Screen
24 Settings Menu Functions
28 Networks and the Internet
31 Upgrading Software

MEDIA PLAY

33 The AllShare Play Screen
34 Playing Files on a USB Storage Device or iPod/iPhone
34 iPod/iPhone Models You Can Use with This Product
35 The Function Screen
35 Playing Commercial Video Discs
35 Playing Commercial Audio Discs
36 Playing a Disc with User Recorded Content
36 Using the AllShare Network Function
38 Controlling Video Playback
40 Controlling Music Playback
41 Playing Photo Contents
42 Using the Tools Menu when a File is Highlighted
44 Listening to Radio
44 Using the Special Effects Remote Control Buttons

NETWORK SERVICES

46 Using Smart Hub
47 BD-LIVE™
47 Using Disc to Digital

APPENDIX

48 Additional Information
53 Troubleshooting
56 Specifications

HT-E4500_ZA_0417-1(D2D).indd 6 2012-04-17 오후 6:24:40

Disk and Format Compatibility

Disc types and contents your product can play

Media	Disc Type	Details
VIDEO	Blu-ray Disc 3D Blu-ray Disc	BD-ROM or BD-RE/-R disc recorded in the BD-RE format.
	DVD-VIDEO, DVD-RW, DVD-R, DVD+RW, DVD+R	DVD-VIDEO, recorded DVD+RW/DVD-RW(V)/DVD-R/+R discs that have been recorded and finalized, or a USB storage media containing MKV, MP4 contents.
MUSIC	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Music recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R discs or a USB storage media containing MP3 or WMA contents.
PHOTO	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Photos recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R discs or a USB storage media containing JPEG contents.

| NOTE |

- The product may not play certain CD-RW/-R and DVD-R because of the disc type or recording conditions.
- If a DVD-RW/-R disc has not been recorded properly in DVD video format, it will not be playable.
- Your product will not play content that has been recorded on a DVD-R at a bitrate that exceeds 10 Mbps.
- Your product will not play content that has been recorded on a BD-R or USB device at a bitrate that exceeds 30 Mbps.
- Playback may not work for some types of discs, or when you use specific operations, such as angle change and aspect ratio adjustment. Information about the discs is written in detail on the disc box. Please refer to this if necessary.
- When you play a BD-J title, loading may take longer than a normal title or some functions may perform slowly.

Disc types your product cannot play

- HD DVD
- DVD-ROM/PD/MV-Disc, etc
- DVD-RAM
- Super Audio CD (except CD layer)
- DVD-RW(VR mode)
- CVD/CD-ROM/CDV/CD-G/CD-I/LD (CD-Gs play audio only, not graphics.)
- 3.9 GB DVD-R Disc for Authoring.

| NOTE |

- This product may not respond to all operating commands because some Blu-ray Disc, DVD, and CD discs allow specific or limited operation and provide only certain features during playback.
  Please note that this is not a defect in the product.
- Samsung cannot guarantee that this product will play every disc bearing the Blu-ray Disc, DVD or CD logo because disc formats evolve, and problems and errors may occur during the creation of Blu-ray Disc, DVD, and CD software and/or the manufacture of discs.
- Please contact the SAMSUNG Customer Care Center at 1-800-726-7864 if you have questions or encounter difficulty when playing Blu-ray Disc, DVD, or CD discs in this product. Also, refer to rest of this user manual for additional information on playback restrictions.
- Some commercial discs and DVD discs purchased outside your region may not play on this product.

HT-E4500_ZA_0417-1(D2D).indd 7 2012-04-17 오후 6:24:41

Region Code

Both products and discs are coded by region. These regional codes must match for a disc to play. If the codes do not match, the disc will not play.
The Region Number for this product is displayed on the rear panel of the product.

Disc Type	Region Code	Area
Blu-ray Disc	A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
	B	Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
	C	India, China, Russia, Central and South Asia.
DVD-VIDEO	1	The U.S., U.S. territories and Canada
	2	Europe, Japan, the Middle East, Egypt, South Africa, Greenland
	3	Taiwan, Korea, the Philippines, Indonesia, Hong Kong
	4	Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
	5	Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
	6	China

| NOTE |

- If the Region number of a Blu-ray Disc/DVDs does not correspond to the Region number of this product, the product cannot play the disc.

Logos of Discs the product can play

Blu-ray Disc	3D Blu-ray Disc
BD-LIVE	Dolby
DTS	NTSC broadcast system in U.S.A, Canada, Korea, Japan
Java	

Supported Formats

Music File Support

File Extension	Container	Audio Codec	Support Range
*.mp3	MP3	MP3	-
*.wma	WMA	WMA	Compliant with WMA version 10 * Sampling rates (in kHz) - 8, 11, 16, 22, 32, 44.1, 48 * Bitrates - All bitrates in the range 5kbps to 384kbps

HT-E4500_ZA_0417-1(D2D).indd 8 2012-04-17 오후 6:24:42

Video File Support

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio Codec
*.avi	AVI	H.264 BP/MP/HP	1920x1080	6 ~ 30	25	MP3 AC3 LPCM DTS Core
		MPEG4 SP/ASP	1920x1080	6 ~ 30	8	
*.mkv	MKV	H.264 BP/MP/HP	1920x1080	6 ~ 30	25	MP3 AC3 LPCM DTS Core
		MPEG4 SP/ASP	1920x1080	6 ~ 30	8	
*.asf	ASF	H.264 BP/MP/HP	1920x1080	6 ~ 30	25	MP3 AC3 LPCM WMA
		MPEG4 SP/ASP	1920x1080	6 ~ 30	8	
*.wmv	WMV (wmv9)	Window Media Video v9	1920x1080	6 ~ 30	25	WMA
*.mp4	MP4	H.264 BP/MP/HP	1920x1080	6 ~ 30	25	MP3 AAC
		MPEG4 SP/ASP	1920x1080	6 ~ 30	8	
*.3gp	3GPP	H.264 BP/MP/HP	1920x1080	6 ~ 30	25	AAC
		MPEG4 SP/ASP	1920x1080	6 ~ 30	8	
*.vro	VRO VOB	MPEG2	1920x1080	24/25/30	25	AC3 MPEG LPCM
		MPEG1	1920x1080	24/25/30	25	
*.mpg *.mpeg	PS	MPEG1	1920x1080	24/25/30	25	AC3 MPEG LPCM AAC
		MPEG2	1920x1080	24/25/30	25	
		H.264	1920x1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920x1080	24/25/30	25	AC3 AAC MP3 DD+
		H.264	1920x1080	6 ~ 30	25	
		VC1	1920x1080	6 ~ 30	25	

▪ Limitations

- Even when a file is encoded by a supported codec listed above, the file might not be played if its content has a problem.
- Normal playback is not guaranteed if the file's container information is wrong or the file itself is corrupted.
- Files having higher bit or frame rates than standard may stutter when played back.

HT-E4500_ZA_0417-1(D2D).indd 9 2012-04-17 오후 6:24:45

- The Seek (skip) function is not available if the file's index table is damaged.
- When you playback a file remotely through a network connection, video playback may stutter depending on the network speed.

▪ Video decoder

- Supports up to H.264 Level 4.1
- Does not support H.264 FMO/ASO/RS, VC1 SP/MP/AP L4 and AVCHD
- MPEG4 SP, ASP :
  Below 1280 x 720 : 60 frames max
  Above 1280 x 720 : 30 frames max
- Does not support GMC 2 or higher

▪ Audio decoder

- Supports WMA 7, 8, 9 and STD
- Does not support WMA 9 PRO multi-channel files if the number of channels is more than 2 or the files require lossless audio decoding.
- Does not support WMA sampling rate of 22050Hz mono

Notes on the USB connection

- Your product supports USB storage media, MP3 players, digital cameras, and USB card readers.
- The product does not support folder or file names longer than 128 characters.
- Some USB/digital camera devices may not be compatible with the product.
- Your product supports the FAT 16, FAT 32, and NTFS files systems.
- Connect USB devices directly to the product's USB port. Connecting through a USB cable may cause compatibility problems.
- Inserting more than one memory device into a multi-card reader may cause the reader to operate improperly.
- The product does not support the PTP protocol.
- Do not disconnect a USB device during a "loading" process.
- The bigger the image resolution, the longer the image takes to display.
- This product cannot play MP3 files with DRM (Digital Rights Management) downloaded from commercial sites.
- Your product only supports video that is under 30fps (frame rate).
- Your product only supports USB Mass Storage Class (MSC) devices such as thumb drives and USB HDD. (HUB is not supported.)
- Certain USB HDD Devices, multi-card readers and thumb drives may not be compatible with this product.
- If some USB devices require excessive power, they may be limited by the circuit safety device.
- If playback from a USB HDD is unstable, provide additional power by plugging the HDD into a wall socket. If the problem continues, contact the USB HDD manufacturer.
- You must remove the USB storage device safely (by performing the "**Safely Remove USB**" function) to prevent possible damage to the USB memory.
  Press the **HOME** button to move to the home menu, press the **YELLOW (C)** button, and then press the ↵ button.
- SAMSUNG is not responsible for any data file damage or data loss.

AVCHD (Advanced Video Codec High Definition)

- This product can play back AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format compresses images with greater efficiency than the conventional image compressing format.
- Some AVCHD discs use the "x.v.Color" format. This product can play back AVCHD discs that use "x.v.Color" format.
- "x.v.Color" is a trademark of Sony Corporation.
- "AVCHD" and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.

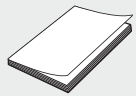
HT-E4500_ZA_0417-1(D2D).indd 10 2012-04-17 오후 6:24:46

| NOTE |

- Some AVCHD format discs may not play, depending on the recording conditions.
- AVCHD format discs need to be finalized.
- "x.v.Color" offers a wider color range than normal DVD camcorder discs.
- Some MKV and MP4 format discs may not play, depending on their video resolution and frame rate.

Accessories

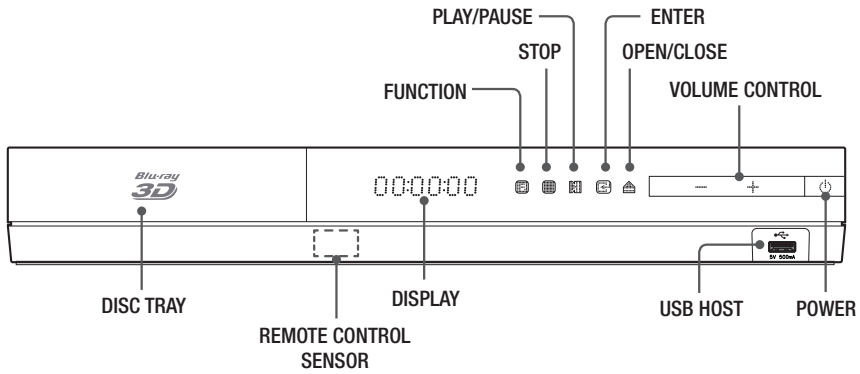
Check for the supplied accessories below.

Video Cable (AH39-40001T)	FM Antenna (AH42-00021A)	
	(For Power cord)	
User Manual (AH68-02433A)	Toroidal Ferrite Core (3301-000144)	Remote Control (AH59-02402A)/ Batteries (AAA size) (4301-000116)

■ Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.

HT-E4500_ZA_0417-1(D2D).indd 11 2012-04-17 오후 6:24:46

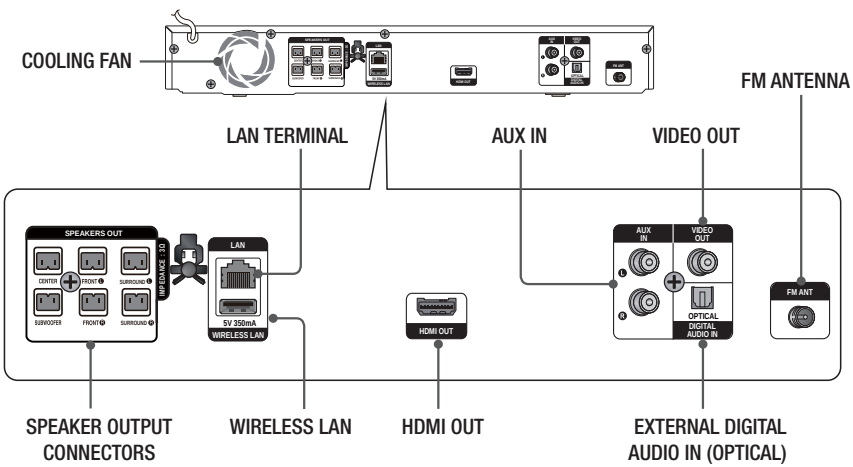
Front Panel



| NOTE |

- To upgrade the product's software through the USB Host jack, you must use a USB memory stick.
- When the product displays the Blu-ray Disc menu, you cannot start the movie by pressing the ▶ button on the product or the remote. To play the movie, you must select Play Movie or Start in the disc menu, and then press the ⏎ button.

Rear Panel



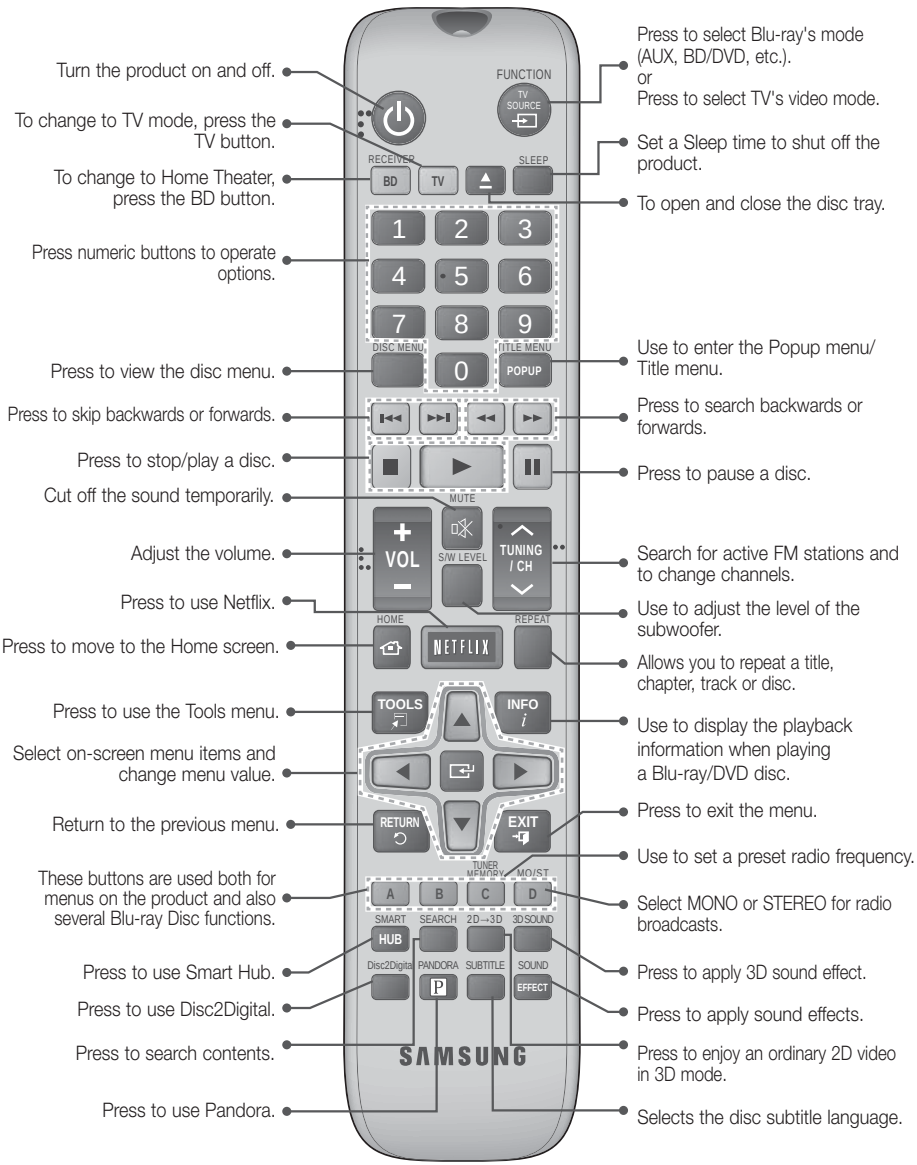
| NOTE |

- Ensure a minimum of 4 inches of clear space on all sides of the home theater to ensure adequate ventilation. Do not obstruct the cooling fan or ventilation holes.

HT-E4500_ZA_0417-1(D2D).indd 12 2012-04-17 오후 6:24:50

Remote Control

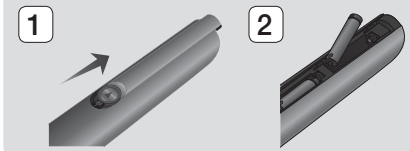
Tour of the Remote Control



HT-E4500_ZA_0417-1(D2D).indd 13 2012-04-17 오후 6:24:52

Installing batteries in the Remote Control

Battery size: AAA



| NOTE |

- Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.
- Assuming typical TV usage, the batteries last for about one year.
- The remote control can be used up to approximately 23 feet (7 meters) from the product in a straight line.

Setting the Remote Control

You can control certain functions of your TV with this remote control.

When operating a TV with the remote control

1. Press the **TV** button to set the remote control to TV mode.
2. Turn on your TV.
3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
   - **Example : For a Samsung TV**
     While holding down the **POWER** button, use the number buttons to enter 00. If that does not work, try 15, then 16, etc.
4. If the TV turns off, the setting is complete.
   - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

| NOTE |

- The remote control may not work on some brands of TV's. Also, some operations may not be possible, depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Control Codes

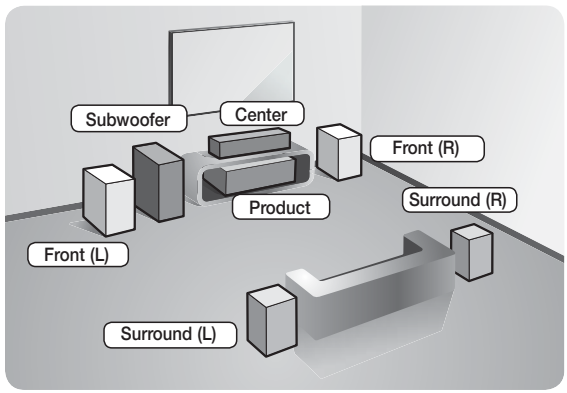
Brand	Code
Admiral (M.Wards)	56, 57, 58
A Mark	01, 15
Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14
AOC	01, 18, 40, 48
Bell & Howell (M.Wards)	57, 58, 81
Brocsonic	59, 60
Candle	18
Cetronic	03
Citizen	03, 18, 25
Cinema	97
Classic	03
Concerto	18
Contec	46
Coronado	15
Craig	03, 05, 61, 82, 83, 84
Croslex	62
Crown	03
Curtis Mates	59, 61, 63
CXC	03
Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90
Daytron	40
Dynasty	03
Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85
Fisher	19, 65
Funai	03
Futuretech	03
General Electric (GE)	06, 40, 56, 59, 66, 67, 68
Hall Mark	40
Hitachi	15, 18, 50, 59, 69
Inkel	45
JC Penny	56, 59, 67, 86
JVC	70
KTV	59, 61, 87, 88
KEC	03, 15, 40
KMC	15
LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44
Luxman	18
LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71
Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89
Marantz	40, 54
Matsui	54
MGA	18, 40

Brand	Code
Mitsubishi/ MGA	18, 40, 59, 60, 75
MTC	18
NEC	18, 19, 20, 40, 59, 60
Nikei	03
Onking	03
Onwa	03
Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
Penney	18
Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
Philips	15, 17, 18, 40, 48, 54, 62, 72
Pioneer	63, 66, 80, 91
Portland	15, 18, 59
Proton	40
Quasar	06, 66, 67
Radio Shack	17, 48, 56, 60, 61, 75
RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94
Realistic	03, 19
Sampo	40
Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
Sanyo	19, 61, 65
Scott	03, 40, 60, 61
Sears	15, 18, 19
Sharp	15, 57, 64
Signature 2000 (M.Wards)	57, 58
Sony	50, 51, 52, 53, 55
Soundesign	03, 40
Spectricon	01
SSS	18
Sylvania	18, 40, 48, 54, 59, 60, 62
Symphonic	61, 95, 96
Tatung	06
Techwood	18
Teknika	03, 15, 18, 25
TMK	18, 40
Toshiba	19, 57, 63, 71
Vidtech	18
Videch	59, 60, 69
Wards	15, 17, 18, 40, 48, 54, 60, 64
Yamaha	18
York	40
Yupiteru	03
Zenith	58, 79
Zonda	01
Dongyang	03, 54

HT-E4500_ZA_0417-1(D2D).indd 14 2012-04-17 오후 6:24:57

This section describes various methods of connecting the product to other external components.
Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

Connecting the Speakers



Position of the product

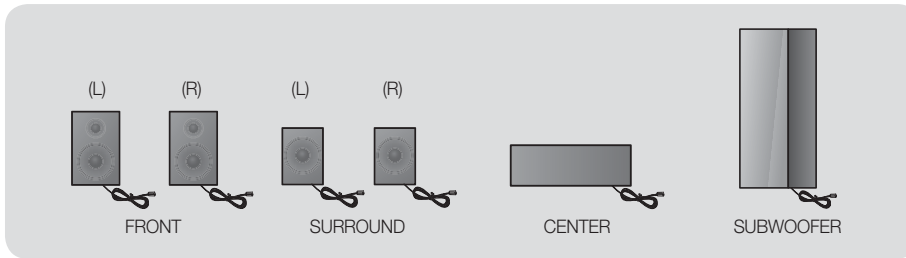
Place it on a stand or cabinet shelf, or under the TV stand.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. For example, if you have a 46 inch screen, locate the listening position 115 to 138 inches (9.6 to11.5 feet) from the screen.

Front Speakers	Place these speakers in front of your listening position, facing inwards (about 45°) toward you. Place the front speakers so that their tweeters will be at the same height as your ear. Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.
Center Speaker	It is best to install the Center Speaker at the same height as the front speakers. You can also install it directly over or under the TV.
Surround Speakers	Place these speakers to the side of your listening position. If there isn't enough room, place these speakers so they face each other. Position them about 2 to 3 feet (60 to 90cm) above your ear, facing slightly downward. * Unlike the front and center speakers, the surround speakers are used mainly for sound effects. Sound will not come from them all the time.
Subwoofer	The position of the subwoofer is not so critical. Place it anywhere you like.

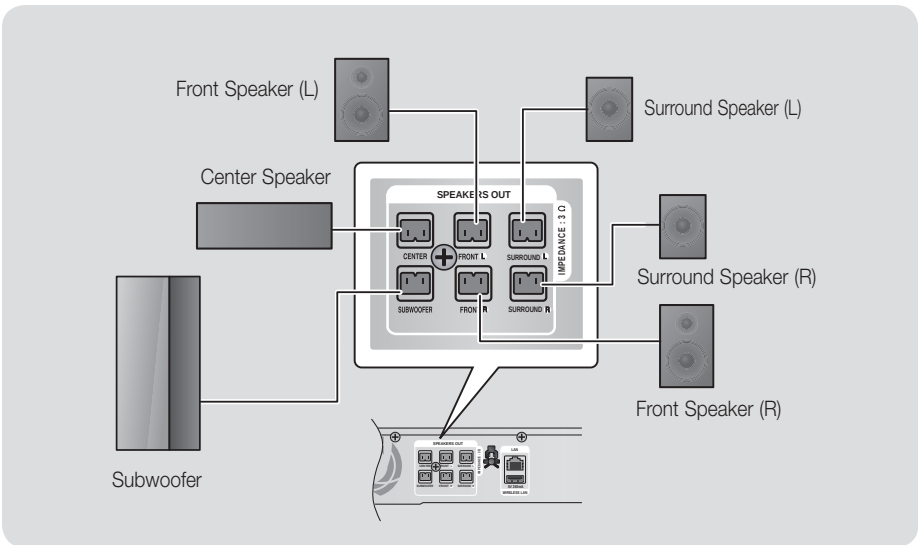
Speaker Components



HT-E4500_ZA_0417-1(D2D).indd 15 2012-04-17 오후 6:24:59

Connecting The Speakers

1. Connect the connecting plugs from each speaker to the back of the product by matching the colors of the speaker plugs to the speaker jacks.



| CAUTION |

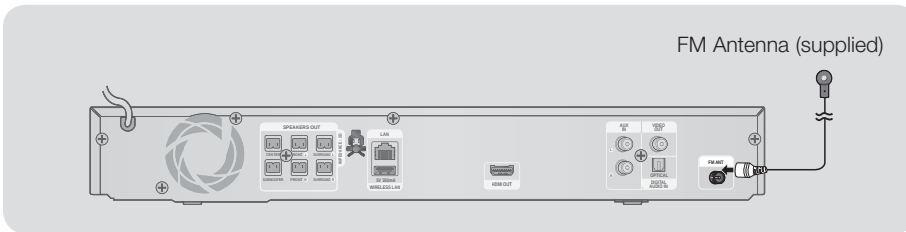
- If you want to install the product on the wall, fasten the screws or nails on the wall firmly and use the holes on the rear of speaker to install. However, when you install it, accessories (nails or screws) and installation is not provided by the company.
- Do not let children play with or near the speakers. They could get hurt if a speaker falls.
- Keep the subwoofer speaker out of reach of children to prevent children from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on the wall through the duct (hole).

| NOTE |

- If you place a speaker near your TV set, the screen color may be distorted because of the magnetic field.

HT-E4500_ZA_0417-1(D2D).indd 16 2012-04-17 오후 6:25:03

Connecting the FM Antenna



1 . Connect the FM antenna supplied to the FM ANTENNA Jack.

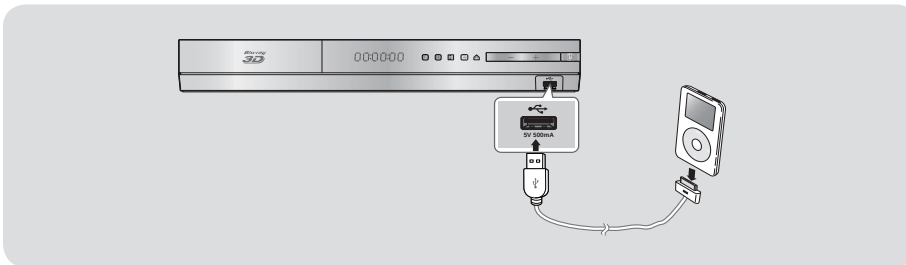
2 . Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

| NOTE |

- This product does not receive AM broadcasts.

Connecting to an iPod/iPhone

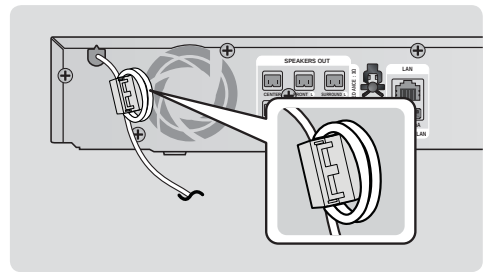
Connect an iPod/iPhone using the USB cable to the front USB port.



Attaching the Toroidal Ferrite Core to the Power Cord of the Main Unit

If you attach a Toroidal ferrite core to the power cord of the main unit, it will help to prevent RF interference from radio signals.

1. Pull the fixing tab of the Toroidal ferrite core to open it.
2. Make a loop twice in the main unit power cord.
3. Attach the Toroidal ferrite core to the main unit power cord as the figure shows and press it until it clicks.

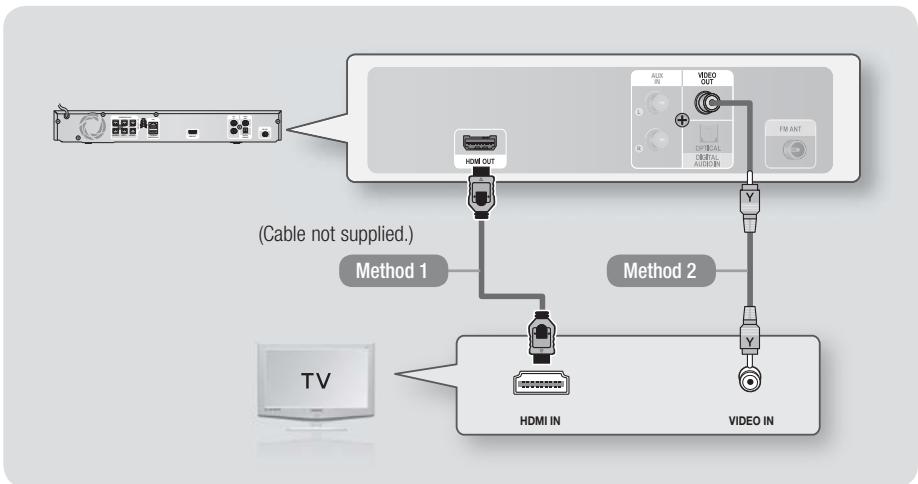


HT-E4500_ZA_0417-1(D2D).indd 17 2012-04-17 오후 6:25:04

Connecting to a TV

Select either Method 1 or Method 2.

- If you have set the product's remote control to operate your TV, press the **TV SOURCE** button on the remote control, and then select the correct external source from the TV's source list (HDMI, Video In, etc.) to view video from the home theater.



Method 1 Connecting to a TV with an HDMI Cable - Best Quality (Recommended)

Connect an HDMI cable (not supplied) from the HDMI OUT jack on the back of the product to the HDMI IN jack on your TV.

If the TV supports ARC, you can hear TV sound from home theater with only connect this cable.

Method 2 Connecting to a TV with a Video Cable - Good Quality

Connect the supplied Video cable from the VIDEO OUT jack on the back of the product to the VIDEO IN jack on your TV.

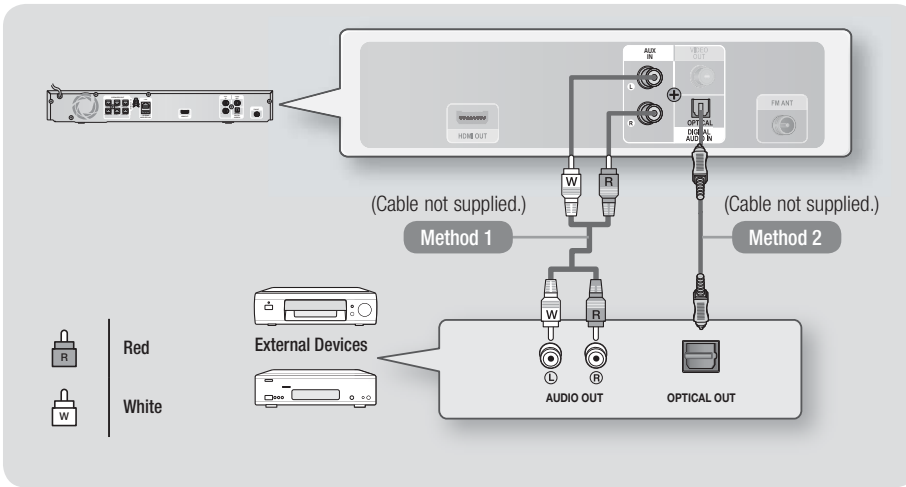
| NOTE |

- The VIDEO Out jack always outputs in the 480i resolution regardless of the resolution set in the Setup menu.
- Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

HT-E4500_ZA_0417-1(D2D).indd 18 2012-04-17 오후 6:25:06

Connecting to External Devices

To select the correct mode for an external device, press the **FUNCTION** button. Each time you press the button, the mode changes in this order : **BD/DVD ➞ D. IN ➞ AUX ➞ R. IPOD ➞ FM**



Method 1 AUX IN : Connecting an External Analog Component

Using an RCA audio cable (not supplied), connect the AUDIO In jack on the product to the AUDIO Out jack on the external analog component. ⇨ Select the **AUX** mode.

- Be sure to match the colors on the cable plugs to the colors on the input and output jacks.

Method 2 OPTICAL : Connecting an External Digital Audio Component

To connect the digital audio output of digital signal components such as Cable Boxes and Satellite Receivers (Set-Top-Boxes).

Using a digital optical cable (not supplied), connect the Optical Digital Audio In jack on the product to the Digital Optical Out jack of the external digital device using a digital optical cable.
⇨ Select the **D. IN** mode.

| NOTE |

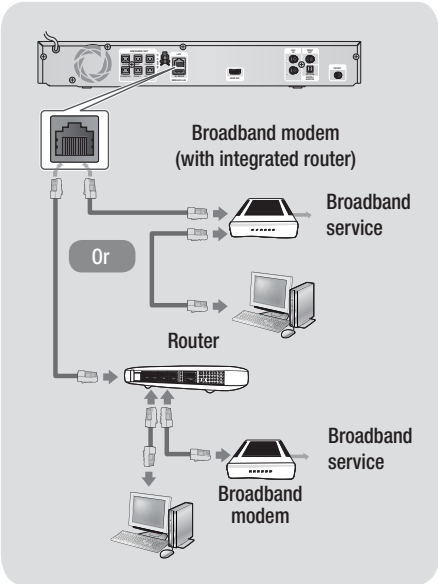
- To see video from your Cable Box/Satellite receiver, you must connect its video output directly to your TV.
- This system supports Digital sampling frequencies of 32 kHz or higher from external digital components.
- This system supports only DTS and Dolby Digital audio. MPEG audio, a bitstream format, is not supported.

HT-E4500_ZA_0417-1(D2D).indd 19 2012-04-17 오후 6:25:09

Connecting to a Network Router

You can connect your product to your network router using one of the methods illustrated below.

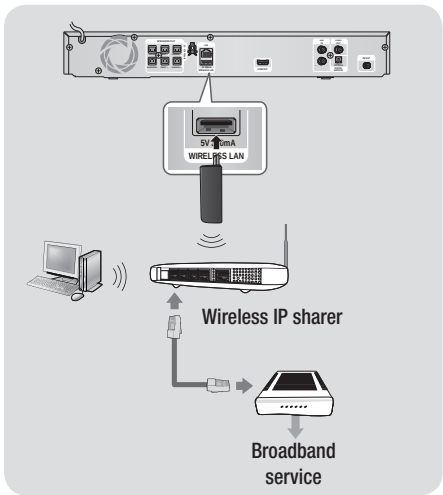
Wired Network



| NOTE |

- Internet access to Samsung's Software Update server may not be allowed, depending on the router you use or your ISP's policy. For more information, contact your ISP (Internet Service Provider).
- DSL users, please use a router to make a network connection.
- To use the AllShare Play function, you must connect your PC to your network as shown in the illustrations on the left.
  The connection can be wired or wireless.

Wireless Network



| NOTE |

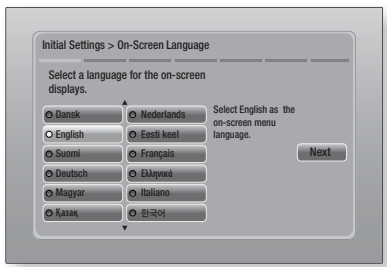
- This product is compatible with only Samsung's Wireless LAN Adapter. (not supplied) (Model name: WIS09ABGN).
  - The Samsung Wireless LAN Adapter is sold separately. Contact a Samsung Electronics retailer for purchasing.
- You must use a wireless IP sharer that supports IEEE 802.11 a/b/g/n. (n is recommended for stable operation of the wireless network.)
- Wireless LAN, by its nature, may cause interference, depending on the use condition (router performance, distance, obstacles, interference by other radio devices, etc).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- The home theater supports the following security protocols only:
  1) Authentication Mode : WEP, WPAPSK, WPA2PSK
  2) Encryption Type : WEP, AES
- For the AllShare Play function, a PC must be connected in the network as shown in the figure.

HT-E4500_ZA_0417-1(D2D).indd 20 2012-04-17 오후 6:25:11

The Initial Settings Procedure

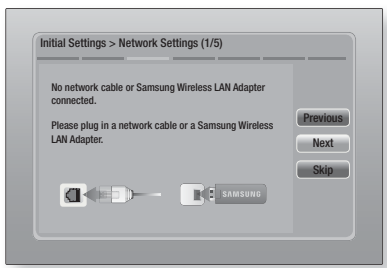
- The Home menu will not appear if you do not configure the initial settings.
- The OSD (On Screen Display) may change in this product after you upgrade the software version.
- The access steps may differ depending on the menu you selected.

1 . Turn on your TV after connecting the product, and then turn on the product. When you turn on the product for the first time, the product automatically displays the Initial Settings Language screen.



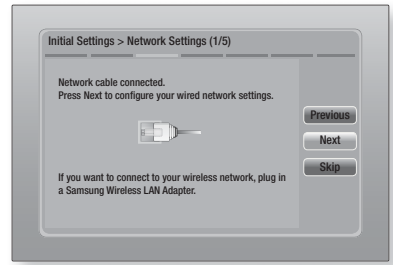
2 . Use the ▲▼◄► buttons on the remote to select the desired language, and then press the button twice. The Start screen appears.

3 · Press the button to start setup. The Network Settings screen appears.



4 · Connect the network cable or insert the Samsung Wireless LAN Adapter.

<Incase of Network Cable connected>



5 . Press the button to set up the product's wired network connection or select **Skip**, and then press the button to skip network setup. If you selected **Skip**, go to Step 9.

6 . If the connection is successful, the Connection Complete screen appears. Select **Next**, and then press the button. The Software Update screen appears.

| NOTE |

- If the connection is not successful, select **Next**, and then press the button. After you have completed the Initial Settings procedure, go to "Wired Network" on page 28 to set up the product's wired network connection.

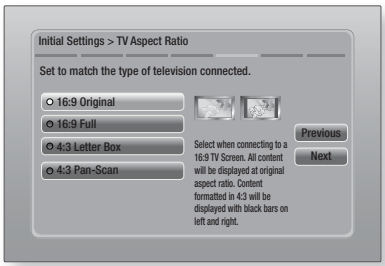
7 . To upgrade the software, select **Update now**, and then press the button. To skip the upgrade, select **Update later**, press the button, and go to Step 9.

| NOTE |

- If you skipped network set up, you must skip Software Update also.

8 · If there is a Software Update available, the product downloads and installs the upgrade. This can take some time. If there is no Software Update available, the "**There are no new software updates for you to download. You already have the most up to date version.**" message appears. And then press the button. The TV Aspect Ratio screen appears.

HT-E4500_ZA_0417-1(D2D).indd 21 2012-04-17 오후 6:25:15



9 · Using the ▲▼ buttons, select the aspect ratio that matches your screen, and then press the button. Select **Next**, and then press the button.

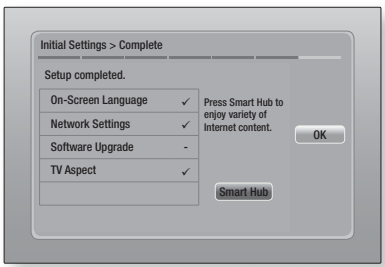
You have four choices:

16:9 Original - For widescreen TVs. Displays widescreen pictures in their orignal 16:9 format and 4:3 pictures (the old, standard format) in 4:3 pillar box format with black bars on the left and right.

16:9 Full - For widescreen TVs. Displays widescreen pictures in their orignal 16:9 format and expands 4:3 pictures to fill the 16:9 screen.

4:3 Letter Box - For older, standard screen analog TVs. Displays 4:3 pictures in full screen and 16:9 pictures in letter box format that retains the 16:9 aspect ratio but puts black bars above and below the picture.

4:3 Pan-Scan - For older, standard screen analog TVs. Displays 4:3 pictures in full screen and 16:9 pictures in Pan-Scan format that fills the screen, but cuts off the left and right sides of the picture and enlarges the middle vertically.

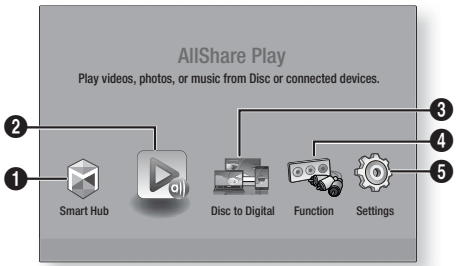


10 . The Setup completed screen appears. Check the settings to confirm they are correct. Select **OK**, and then press the button. The Home screen appears.

| NOTE |

- If you want to display the Initial Setting screen again and make changes, select the Reset option. (See page 27)
- If you use an HDMI cable to connect the product to an Anynet+ (HDMI-CEC)-compliant Samsung TV and 1.) You have set the Anynet+ (HDMI-CEC) feature to ON in both the TV and the product and 2.) You have set the TV to a language supported by the product, the product will select that language as the preferred language automatically.

The Home Screen



❶	**Smart Hub.** Starts Smart Hub. From Smart Hub, you can access Netflix, Pandora, YouTube, games, and other apps.
❷	**AllShare Play.** Play videos, photos or music content from Disc, USB, PC or mobile devices.
❸	**Disc to Digital.** Access you movie collection via cloud storage anytime, any place without your DVD disc.
❹	**Function.** Select the audio/video input source.
❺	**Settings.** Set various functions to suit your personal preferences.

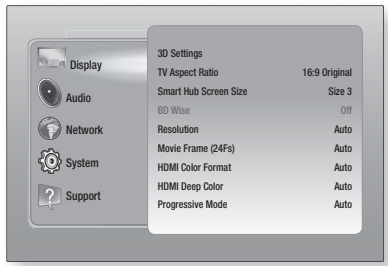
▪ Selecting an Option on the Home Screen

1 . To select an option on the Home screen, move the cursor using the ◄► buttons until it highlights the option of your choice, and then press the button.

HT-E4500_ZA_0418-1(D2D).indd 22 2012-04-18 오전 11:40:06

Accessing the Settings Screen

1 . Select **Settings** on the Home screen, and then press . The Settings screen appears.

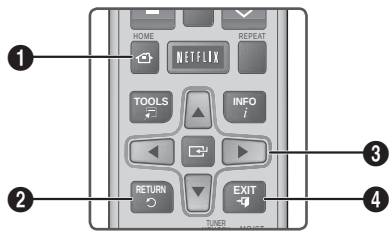


2 . To access the menus, sub-menus, and options on the Settings screen, please refer to the remote control illustration below.

| NOTE |

- If you leave the product in the stop mode for more than 5 minutes without using it, a screen saver will appear on your TV. If the product is left in the screen saver mode for more than 20 minutes, the power will automatically turn off.

Buttons on the Remote Control Used for the Settings Menu



1	**HOME** Button : Press to move to the Home screen.
2	**RETURN** Button : Return to the previous menu.
3	(**Enter**) / **DIRECTION** Button : • Press ▲▼◄► to move the cursor or select an item. • Press the button to activate the currently selected item or confirm a setting.
4	**EXIT** Button : Press to exit the current menu.

| NOTE |

- The button on the product's front panel can be used for same purpose as the button on the remote control.

Detailed Function Information

Each Settings function, menu item, and individual option is explained in detail on-screen. To view an explanation, use the ▲▼◄► buttons to select the function, menu item, or option.
The explanation will usually appear on the right of the screen. A short description of each Settings function starts on the next page. Additional information on some of the functions is also in the Appendix of this manual.

HT-E4500_ZA_0417-1(D2D).indd 23 2012-04-17 오후 6:25:28

Settings Menu Functions

Display	**3D Settings**	Set up the 3D related functions. ✓ **3D Blu-ray Playback Mode**: Select whether to play a Blu-ray Disc with 3D contents in 3D Mode. If you move to the Home or Smart Hub Home menu while in 3D mode, the product will switch to 2D automatically. ✓ **Screen Size**: Enter the size of the TV attached to the product. The product will automatically adjust the 3D output to the screen size of the TV.
	TV Aspect Ratio	Lets you adjust the output of the product to the screen size of your TV. See page 22, Step 9 for a description of the screen size options.
	Smart Hub Screen Size	Lets you select the optimal size for the Smart Hub Screen.
	BD Wise	BD Wise is Samsung's latest inter-connectivity feature. When you connect a Samsung product and a Samsung TV with BD Wise to each other via HDMI, and BD Wise is on in both the product and TV, the product outputs video at the video resolution and frame rate of the Blu-ray/DVD Disc.
	Resolution	Lets you set the output resolution of the HDMI video signal to **Auto, 1080p, 1080i, 720p, 480p**. If Composite is connected, the resolution supports only **480i**. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher quality.
	Movie Frame (24Fs)	Setting the Movie Frame (24Fs) feature to Auto lets the product adjust its HDMI output to 24 frames per second automatically for improved picture quality if attached to a 24Fs compatible TV. • You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate. • Movie Frame is only available when the product is in the HDMI 1080i or 1080p output resolution modes.
	HDMI Color Format	Lets you set the color space format for the HDMI output to match the capabilities of the connected device (TV, monitor, etc).
	HDMI Deep Color	Lets you set the product to output video from the HDMI OUT jack with Deep Color. Deep Color provides more accurate color reproduction with greater color depth.
	Progressive Mode	Lets you improve picture quality when viewing DVDs.

HT-E4500_ZA_0417-1(D2D).indd 24 2012-04-17 오후 6:25:42

Audio	**Speaker Settings**	You can set the speaker options.
	Equalizer	Let you configure the Equalizer settings manually.
	Smart Volume	Lets you set the product so that the volume remains stable when a scene change occurs or when you change the channel.
	Speaker Selection	Lets you select which speakers you want active, either the TV's speakers or the Home theater's speakers.
	Audio Return Channel	Lets you direct the sound from the TV to the Home Theater speakers. Requires an HDMI connection and an Audio Return Channel (ARC) compatible TV. • When Audio Return Channel set to on, use HDMI Cable to connect the product to the TV. At this time, optical input does not work. • When Audio Return Channel set to auto, use HDMI Cable to connect the product to the TV. At this time, ARC and optical input is selected automatically.
	Digital Output	Let you set the Digital Output to match the capabilities of the AV receiver you've connected to the product. For more details, please refer to the digital output selection table. (See page 52)
	Dynamic Range Control	Lets you apply dynamic range control to Dolby Digital, Dolby Digital Plus, and Dolby True HD audio. ✓ **Auto**: Automatically controls the dynamic range of Dolby TrueHD audio, based on information in the Dolby TrueHD soundtrack. Also turns dynamic range control on for Dolby Digital and Dolby Digital Plus. ✓ **Off**: Leaves the dynamic range uncompressed, letting you hear the original sound. ✓ **On**: Turns dynamic range control on for all three Dolby formats. Quieter sounds are made louder and the volume of loud sounds is reduced.
	Audio Sync	When the product is attached to a digital TV, lets you adjust the audio delay so that the audio syncs with the video. You can set the delay between 0 and 300 milliseconds.
Network	**Network Settings**	For more information about Network Settings and network functions, see "Networks and the Internet" starting on page 28.
	Network Status	Let you check whether a connection to the network and the Internet have been established.

HT-E4500_ZA_0417-1(D2D).indd 25 2012-04-17 오후 6:25:43

	AllShare Settings	Lets you permit external devices such as smart phones to connect to the product and share content with or control the product.
	BD-Live Settings	Lets you allow, limit, or prohibit an Internet connection for the BD-Live service.
System	**Initial Settings**	Lets you re-run the Initial Settings procedure. See page 21 for details.
	Device Manager	You can connect a wireless USB keyboard or mouse to the USB port on the front of the product. ✓ **Keyboard Settings**: Lets you configure a wireless USB keyboard connected to the product. | **NOTE** | ▸ You can use the keyboard only on the **QWERTY** keyboard screen. ✓ **Mouse Settings**: Lets you configure a wireless USB mouse connected to the product. You can use the mouse in the product's menu in the same way you use a mouse on your PC. ▪ To use a mouse with the product's menu: **1 .** Connect the USB mouse to the product. **2 .** Click the primary button you selected in Mouse Settings. The Simple Menu appears. **3 .** Click the menu options you want. | **NOTE** | ▸ Depending on the model of the USB HID keyboard and mouse may not be compatible with your product. ▸ Some HID keyboard keys may not work. ▸ Wired USB keyboards are not supported. ▸ Some applications may not be supported. ▸ If a wireless HID Keyboard does not operate because of interference, move the keyboard closer to the product.
	Anynet+ (HDMI-CEC)	Anynet+ is a convenient function that offers linked operations with other Samsung products that have the Anynet+ feature and lets you control those products with one Samsung TV remote. To operate this function, you must connect this product to an Anynet+ Samsung TV using an HDMI cable.
	Language	You can select the language you prefer for the On-Screen menu, disc menu, subtitles, etc. • The language you select for the disc menu, disc audio, or subtitles will only appear if it is supported on the disc.

HT-E4500_ZA_0417-1(D2D).indd 26 2012-04-17 오후 6:25:44

	Security	The default PIN is 0000. Enter the default PIN to access the security function if you haven't created your own password. ✓ **BD Parental Rating**: Prevents playback of Blu-ray Discs with a rating equal to or above a specific age rating you enter unless the PIN is entered. ✓ **DVD Parental Rating**: Prevents playback of DVDs with a rating above a specific numerical rating you select unless the PIN is entered. ✓ **Change PIN**: Change the 4-digit PIN used to access security functions. ▪ If you forget your PIN 1 . Remove any disc or USB storage device. 2 . Press and hold the ■ button on the front panel for 5 seconds or more. All settings will revert to the factory settings. | NOTE | ▸ When the factory default settings are restored, all the user stored BD data will be deleted.
	General	You can specify the display brightness and time zone. ✓ **Front Display**: Lets you change the brightness of the front panel. ✓ **Time Zone**: You can specify the time zone that is applicable to your area. ✓ **Menu Transparency**: Adjust the transparency of the menu box.

Support	Software Update	For more information about the Software Update function, see "Upgrading Software" on page 31.
	Contact Samsung	Provides contact information for assistance with your product.
	Remote Management	When activated, lets Samsung Call Center agents diagnose and fix problems with the product remotely. Requires an active Internet connection. Remote Management service might not be available in some countries.
	Reset	All settings will revert to the default except for the network and Smart Hub settings. The default security password is 0000.

HT-E4500_ZA_0417-1(D2D).indd 27 2012-04-17 오후 6:25:44

Networks and the Internet

When you connect this product to a network, you can use network based applications and functions such as Smart Hub and BD-LIVE, and upgrade the product's software through the network connection. For more information about accessing and using Internet services, see the Network Services chapter of this manual on pages 46~48. Instructions for configuring the network connection start below.

Configuring Your Network Connection

Before you begin, contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, and you have a wired or wireless network, we recommend using the Automatic configuration procedures described below.

If you are connecting to a wired network, connect the product to your router using a LAN cable or Samsung Wireless LAN Adapter (sold separately) before you start the configuration procedure.

If you are connecting to a wireless network, disconnect any wired network connection before you begin.

To begin configuring your network connection, follow these steps:

1 · In the Home screen, select **Settings**, and then press the button.

2 · Select **Network**, and then press the button.

3 · Select **Network Settings**, and then press the button.

4 · Go to the instructions for Wired networks starting below or the instructions for Wireless networks starting on page 29.

Wired Network

❑ **Wired – Automatic**

After following Steps 1 to 3 above:

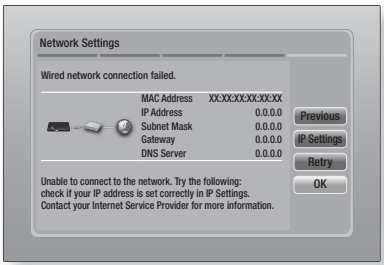
1 · Select **Start** in the Network Settings screen, and then press the button. The product detects the wired connection, verifies the network connection and then connects to the network.

❑ **Wired - Manual**

If you have a static IP address or the Automatic procedure does not work, you'll need to set the Network Settings values manually.

After following Steps 1 to 3 above:

1 · Select **Start** in the Network Settings screen, and then press the button. The Network Status screen appears. The product attempts to verify the network connection and fails.



2 . Select **IP Settings** on the right of the screen, and then press button.
The IP Settings screen appears.

3 . Select the **IP Mode** field, and then set it to **Manual**.

4 · Use the number keypad on your remote to enter the Network values. Use the ▲▼◄► buttons on the remote to move from entry field to entry field.

| NOTE |

- You can get these values from your Internet provider. You can also view these values on most Windows computers. For instructions, see "Getting the Network Settings Values." on next page.

5 · When done, highlight **OK**, and then press button. The product verifies the network connection and then connects to the network.

HT-E4500_ZA_0417-1(D2D).indd 28 2012-04-17 오후 6:25:45

< Getting the Network Settings Values >

You can view your Network Settings values on most Windows computers. To view the Network Settings values, follow these steps:

• Windows XP

1 · Right click the Network icon on the bottom right of the Windows desktop.

2 · In the pop-up menu, click Status.

3 · On the dialog that appears, click the Support tab.

4 · On the Support tab, click the Details button.

5 · The Network settings are displayed.

• Windows 7

1 · Click the Network icon on the bottom right of the Windows desktop.

2 · In the pop-up menu, click Network and Sharing Center.

3 · On the dialog that appears, click the Local Area Connection or Wireless Network Connection depending on your network connection.

4 · On the Support tab, click the Details button. The Network settings are displayed.

| NOTE |

▸ Depending on your Windows version, the information may differ.

Wireless Network

You can setup a wireless network connection in three ways:

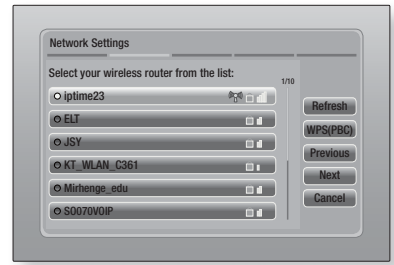
- Wireless Automatic
- Wireless Manual
- WPS(PBC)

When you configure the wireless network connection, any wireless network devices currently connected through the product or, if applicable, the product's current wired connection, will be disconnected.

❑ Wireless (General) - Automatic

After following Steps 1 to 3 in "Configuring Your Network Connection" on page 28.

1 · Select **Start** in the Network Settings screen, and then press the ↵ button.
The product searches for and then displays a list of the available networks.



2 · Select the desired network, and then press the ↵ button.

3 · Select **Next**, and then press the ↵ button again.

4 · On the Security screen, enter your network's Security Code or Pass Phrase.
Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with an arrow button, and then pressing ↵ button.

5 · When done, select **Next** at the right of the screen. The product verifies the network connection and then connects to the network.

| NOTE |

▸ You should be able to find the Security Code or Pass Phrase on one of the set up screens you used to set up your router or modem.

❑ Wireless (General) - Manual

If you have a static IP address or the Automatic procedure does not work, you'll need to set the Network Settings values manually.
After folloiwng Steps 1 to 3 in "Configuring Your Network Connection" on page 28.

HT-E4500_ZA_0417-1(D2D).indd 29 2012-04-17 오후 6:25:46

1 · Select **Start** in the Network Settings screen, and then press the button. The product searches for and then displays a list of the available networks.

2 · Select the desired network or the **Add Network**, and then press the button.

3 · Select **Next**, and then press the button again.

4 · If you select the **Add Network**, enter your wireless router's name to connect.
Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with the ▲▼◄► buttons, and then pressing the button.
Select **Next**, and then press the button again. You can select security type, and then select **Next**, and then press the button again.

5 · On the Security screen, enter your network's Security Code or Pass Phrase.
Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with the ▲▼◄► buttons, and then pressing the button.

6 · When done, select **Next** at the right of the screen, and then press the button.

7 · The Network Status screen appears.
The product attempts to verify the network connection and fails.

8 · Select **IP Settings** on the right of the screen, and press the button. The IP Settings screen appears.

9 · Select the **IP Mode** field, and then set it to **Manual**.

10 · Use the number keypad on your remote to enter the Network values. Use the ▲▼◄► buttons on the remote to move from entry field to entry field.

| NOTE |

- You can get these values from your Internet provider. You can also view these values on most Windows computers. For instructions, see "Getting the Network Settings Values." on page 29.

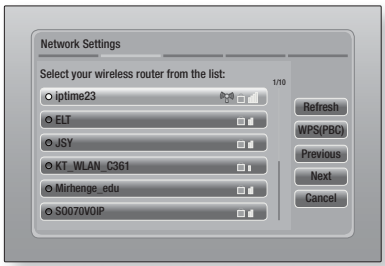
11 · When done, highlight **OK**, and then press button. The Network Status screen appears. The product verifies the network connection and then connects to the network. When it is done, highlight **OK**, and then press button.

❑ WPS(PBC)

One of the easiest ways to set up the wireless network connection is using the WPS(PBC) function. If your wireless router has a WPS(PBC) button, follow these steps:

After following Steps 1 to 3 in "Configuring Your Network Connection" on page 28.

1 · Select **Start** in the Network Settings screen, and then press the button.



2 · Select **WPS(PBC)**, and then press the button.

3 · Press the **WPS(PBC)** button on your router within two minutes. Your product automatically acquires all the network settings values it needs and connects to your network.
The Network Status screen appears. The product connects to the network after the network connection is verified.

AllShare Settings

The AllShare Settings screen lists your network connected AllShare devices and their IP addresses. Through this screen, you can allow a device to access the product, deny access, or delete the device from the AllShare list.

1 · In the Home screen, select **Settings**, and then press the button.

2 · Select **Network**, and then press the button.

HT-E4500_ZA_0417-1(D2D).indd 30 2012-04-17 오후 6:25:47

3 · Select **AllShare Settings**, and then press the button.

4 · Select a device, and then press the button. The AllShare Settings pop-up appears.

5 · Select **Allow**, **Deny**, or **Delete** from List, and then press the button.

The AllShare Settings screen only displays devices if you have established networked connections to AllShare devices. For more information about AllShare networked devices, see pages 33~34.

Upgrading Software

The Software Update menu allows you to upgrade the product's software for performance improvements or additional services.

- Never turn the product off or back on manually during the update process.

1 · In the Home menu, select the **Settings**, and then press the button.

2 · Select **Support**, and then press the button.

3 · Select **Software Update**, and then press the button.

4 · Select one of the following methods:
- **Online**
- **By USB**
- **By Disc**
- **By Downloaded**
- **Standby Mode Upgrade**

5 · Press the button.
Directions for each method begin below.

| NOTE |

- The upgrade is complete when the product turns off, and then turns on again by itself.
- Samsung Electronics takes no legal responsibility for product malfunction caused by an unstable Internet connection or consumer negligence during a Software Update.
- If you want to cancel the upgrade while the upgrade software is downloading, press the button.

Online

Your product must be connected to the Internet to use the Online function.

1 · Select **Online**, and then press the button. The Connecting to Server message appears.

2 · If there is a download available, the Download pop-up appears with a progress bar and the download starts.

3 · When the download is complete, the Upgrade Query window appears with three choices: **Update now**, **Update later** or **Don't update**.

4 · If you select **Update now**, the product upgrades the software, turns off, and then turns on automatically.

5 · If you do not make a selection in one minute or select **Update later**, the product stores the new upgrade software. You can upgrade the software later using the **By Downloaded** function.

6 · If you select **Don't update**, the product cancels the upgrade.

By USB

1 · Visit www.samsung.com.

2 · Click **SUPPORT** on the top right of the page.

3 · Enter the product's model number into the search field, and then click **Find Product**.

4 · Click **Get downloads** in the center of the page below the Downloads header.

5 · Click **Firmware** in the center of the page.

6 · Click the **ZIP** icon in the File column on the right side of the page.

7 · Click **OK** in the pop-up that appears to download and save the firmware file to your PC.

8 · Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.

9 · Copy the folder to a USB flash drive.

10 · Make sure no disc is inserted in the product, and then insert the USB flash drive into the USB port of the product.

HT-E4500_ZA_0417-1(D2D).indd 31 2012-04-17 오후 6:25:48

11 · In the product's menu, go to **Settings** > **Support** > **Software Update**.

12 · Select **By USB**.

| NOTE |

- There should be no disc in the product when you upgrade the software using the USB Host jack.
- When the Software Update is done, check the software details in the **Software Update** menu.
- Do not turn off the product during the Software Update. It may cause the product to malfunction.
- Software Updates using the USB Host jack must be performed with a USB flash memory stick only.

By Disc

1 · Visit www.samsung.com.

2 · Click **SUPPORT** on the top right of the page.

3 · Enter the product's model number into the search field, and then click **Find Product**.

4 · Click **Get downloads** in the center of the page below the Downloads header.

5 · Click **Firmware** in the center of the page.

6 · Click the **ZIP** icon in the File column on the right side of the page.

7 · Click **OK** in the pop-up that appears to download and save the firmware file to your PC.

8 · Unzip the zip archive to your computer. You should have a single .RUF file.

9 · Write the RUF file onto a disc. We recommend a CD-R or DVD-R.

10 · Finalize the disc before you remove it from your computer.

11 · Insert the disc into the product.

12 · In the product's menu, go to **Settings** > **Support** > **Software Update**.

13 · Select **By Disc**.

| NOTE |

- When the system upgrade is done, check the software details in the **Software Update** menu.
- Do not turn off the product during the Software Update. It may cause the product malfunction.

By Downloaded

The By Downloaded option lets you upgrade using a file the product downloaded earlier but you decided not to install immediately.

1 · If upgrade software has been downloaded, you will see the software version number to the right of By Downloaded.

2 · Select **By Downloaded**, and then press the ↵ button.

3 · The product displays a message asking if you want to upgrade. Select **Yes**. The product begins the upgrade.

4 · When the update is complete, the product turns off automatically, and then turns on.

| NOTE |

- When the system upgrade is done, check the software details in the **Software Update** menu.
- Do not turn off the product during the Software Update. It may cause the product to malfunction.

Standby Mode Upgrade

You can set the Standby Mode Upgrade function so that the product downloads new upgrade software when it is in Standby mode.

In Standby mode, the product is off, but its Internet connection is active. This allows the product to download upgrade software automatically, when you are not using it.

1 · Press the ▲▼ buttons to select **Standby Mode Upgrade**, and then press the ↵ button.

2 · Select **On** or **Off**.
If you select **On**, the product will automatically download new upgrade software when it is in Standby mode with the power off. If it downloads new upgrade software, the product will ask you if you want to install it when you turn the product on.

| NOTE |

- To use Standby Mode Upgrade function, your product must be connected to the Internet.
- If this function does not appear, you can upgrade to the latest software and use it.

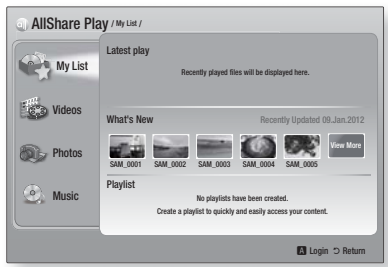
HT-E4500_ZA_0417-1(D2D).indd 32 2012-04-17 오후 6:25:48

Your Blu-ray product can play Disc and USB contents and the contents located on your PC, DLNA compatible mobile phone, or NAS using the AllShare Play function. For more information about AllShare Play, refer to page 36.

The AllShare Play Screen

To access the AllShare Play screen, select the AllShare Play icon on the Main screen, and then press the ⏎ button.

Using the AllShare Play Screen



When the AllShare Play screen appears, it displays My List and a list of content types - Videos, Photos, and Music - on the left side. On the right, it displays, by default, the content in My List: a list of recently played or viewed items, a list of the newest items you have viewed or listened to, and your most recent Playlist. If you have never played or viewed any items, or created a Playlist, this area will be empty.

❑ Playing My List Items

To play displayed My List items, you must have the source of the items connected to or inserted in the product. For example, if recently played My List photos came from a DVD disc, you must have that disc in the product to view them.

To play or view My List items, perform one of the actions below:

- Use the ◄► buttons to select an item you want to view or play, and then press the ⏎ button. To view or play another item, press the **RETURN** (↩) button, and then repeat the process described in the first sentence.
- Use the ◄► buttons to select an item, press the **TOOLS** button to display the Tools menu, select **Play**, and then press the ⏎ button. To view or play another item, press the **RETURN** (↩) button, and then repeat the process described in the first sentence.

❑ Playing Video, Photo, or Music Content

1 · Make sure that the source of the content you want to play or view is connected to or inserted into the product.

2 · Use the ▲▼ buttons to select **Videos**, **Photos**, or **Music**, and then press the ⏎ button. The first source selection on the right side is highlighted.

3 · Use the ▲▼ buttons to select the source of the content, and then press the ⏎ button.

| NOTE |

▸ Sources displayed for each content type may differ.

4 · To control the playing of Videos, Photos, or Music, see:

- Controlling Video Playback on page 38.
- Controlling Music Playback on page 40.
- Playing Photo Contents and Using the Tools Menu when a File is Highlighted on pages 41~44.

| NOTE |

▸ Depending on how and when you attach a content source to the product and the content type, the product may display a different series of screens to start playback. For alternative playback methods see:

- Playing Files on a USB Storage Device or iPod/iPhone on page 34.
- Playing Commercial Video Discs on page 35.
- Playing Commercial Audio Discs on page 35.
- Playing a Disc with User Recorded Content on page 36.

HT-E4500_ZA_0417-1(D2D).indd 33 2012-04-17 오후 6:25:49

Playing Files on a USB Storage Device or iPod/iPhone

You can play multimedia files located on a connected USB device.

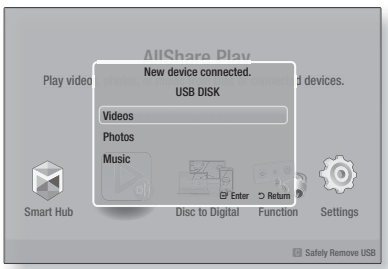
1 · With the product turned off, connect a USB storage device or an iPod/iPhone.

2 · Turn on the product. When the Main screen appears, select **AllShare Play** > **Videos**, **Photos** or **Music** > **Connected Device**, and then press the ⏎ button.

OR

1-1. With the product turned on, connect a USB storage device or an iPod/iPhone.

2-1. When screen below appears, use the ▲▼ buttons to select the kind of content you want to view or play, and then press the ⏎ button.



| NOTE |

- Even though the product will display all available folders, it will only display files of the content type you selected in Step 2 or 2-1. For example, if you selected music, you will only be able to see music files. You can change this selection using AllShare Play.

3 · The kind of content you selected on the connected device is displayed. Depending on how the contents is arranged, you will see either folders, individual files, or both.

4 · Using the ▲▼◄► buttons on your remote, select the desired contents. To open a folder, select it, and then press the ⏎ button. To play a file, select it, and then press the ⏎ button.

5 · Press the **RETURN** (↩) button to exit a folder or to return to the Main screen.

| NOTE |

- To prevent possible damage to the USB memory, you must remove the USB storage device safely using the "**Safely Remove USB**" function. Press the **HOME** button to move to the Home menu, select the **YELLOW (C)** button, and then press the ⏎ button.
- The **Photos**, **Videos** menu does not support iPods or iPhones.
- Only the playback screen will appear on the TV. View other iPod screens on the iPod player.

iPod/iPhone Models You Can Use with This Product

iPod touch 3rd/2nd/1st generation
iPod classic / iPod with video
iPod with Click Wheel
iPod nano 5th/4th/3rd/2nd generation
iPhone 4S / iPhone 4
iPhone 3GS / iPhone 3G / iPhone

HT-E4500_ZA_0417-1(D2D).indd 34 2012-04-17 오후 6:25:58

The Function Screen

On the Function Screen, you can select the audio and/or video input source to view or listen to.

| NOTE |

- You can also change sources by pressing the Function button in the upper right of the remote.

To access the Function Screen, select the Function icon on the Main screen, and then press the button.

Options on the Function Screen

To select, highlight an option using the ▲▼ buttons, and then press the button.

Digital In	Select to listen to the digital audio source connected to Digital Audio In.
AUX	Select to listen to audio from the analog audio source connected to Audio In.
Remote iPod	Select to listen to music from the iPod connected to the iPod jack.
Tuner	Select to listen to the FM radio.

Playing Commercial Video Discs

1 · Place a disc into the disc tray with the disc's label facing up and then close the disc tray. Playback starts automatically.
If playback does not start automatically, press the button on your remote or select the AllShare Play option on the Main screen, and then press the button. See "Playing Video, Photo, or Music Content" on page 33.

Playing Commercial Audio Discs

1 · Place a pre-recorded, commercial audio disc into the disc tray with the disc's label facing up, and then close the tray. The AllShare Play Music screen appears listing the tracks. Playback of the first track starts automatically.

2 · To play a particular track, use the ▲▼ buttons on the remote to select the track, and then press the button.

❑ Music Screen Controls

⏸	Pause a track.
▶	Play a track.
↻	Repeat one track or all tracks.
⤮	Play tracks in random order.
▥	Display the Equalizer.
▥	Adjust the equalizer manually. (Only when equalizer mode is On)

| NOTE |

- The Music Screen controls are only accessible when a track is playing.
- All controls do not appear at the same time.
- For more information about playing music, go to "Controlling Music Playback" on page 40.

HT-E4500_ZA_0417-1(D2D).indd 35 2012-04-17 오후 6:26:12

Playing a Disc with User Recorded Content

You can play multimedia files you have recorded on DVD or CD discs.

1 · Place a user recorded disc into the disc tray with the disc's label facing up, and then close the tray. The Device Connected pop-up appears.

2 · Use the ▲▼ buttons to select the type of content you want to view or play - Videos, Photos, or Music - and then press the ↵ button.

| NOTE |

- Even though the product will display folders for all content types, it will only display files of the content type you selected in Step 2. For example, if you selected music, you will only be able to see music files. You can change this selection using AllShare Play.

3 · Use the ▲▼◄► buttons to select the folder containing the content type you selected in Step 2, and then press the ↵ button.

4 · If you selected **Music**, the AllShare Play Music screen appears listing the music files on the disc. Use the ▲▼ buttons to select the file you want to play, and then press the ↵ button.

5 · If you selected **Photos**, the AllShare Play Photos screen appears listing the photos on the disc. Use the ▲▼◄► buttons to select the photo you want to view, and then press the ↵ button.

6 · If you selected **Videos**, the AllShare Play Videos screen appears listing the video files on the disc. Use the ▲▼◄► buttons to select the video you want to watch, and then press the ↵ button.

| NOTE |

- For the Music and Video folders, you can also push the **TOOLS** button on your remote, and then select Play Folder to play or view all the files in the folder automatically. Select the folder first before pushing the **TOOLS** button.
- For more information about playing music, go to Controlling Music Playback on page 40.
- For more information about playing photo contents, go to Playing Photo Contents and Using the Tools Menu when a File is Highlighted on pages 41~44.
- For more information about playing video contents, go to Controlling Video Playback on page 38.

Using the AllShare Network Function

AllShare lets you play Videos, Photos, or Music located on your PC or your DLNA compatible device through the product using a wireless network connection.

To Download the AllShare Software

To use AllShare with your PC or DLNA device, you must install AllShare software on your PC.

You can download the PC software and get detailed instructions for using AllShare from the Samsung.com website.

1 · Go to www.samsung.com.

2 · Click Support at the top of the page.

3 · On the Support page, enter the model number of your product into the Model Number field.

4 · On the page that appears, click Get downloads on the left side under Downloads. The Download Center appears.

5 · On the Download Center page, click the Software tab.

6 · On the software tab, click the File icon on the right side of the AllShare line.

7 · In the pop-up that appears, click Save File.

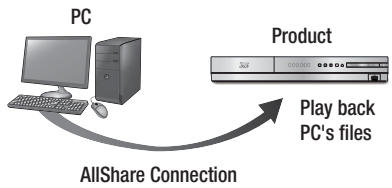
8 · Find the AllShare install file on your disk, and then double click the file.

9 · In the pop-up that appears, click Run, and then follow the directions that appear on your screen.

Download the AllShare Installation/Instruction manual from the same Software Tab by clicking the corresponding PDF file symbol in the File column on the right. The file, in PDF format, will download and open. You can view and/or save the file.

HT-E4500_ZA_0417-1(D2D).indd 36 2012-04-17 오후 6:26:19

Playing Content Located on Your PC or DLNA Device through the Product



1 · Connect the product, your PC, and/or your DLNA compatible cell phone to the same wireless network.

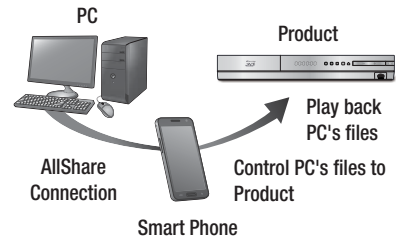
2 · Follow the directions in the AllShare software Installation/Instruction manual to set up devices and files for playing or viewing.

3 · Select **AllShare Play** in the product's Home screen, and then press the ↵ button. The **AllShare Play** screen appears.

4 · Select the connected DLNA compatible device or your PC, and then press the ↵ button. A screen listing the available files appears.

5 · Select the file you want to play or view, and then press the ↵ button.

Controlling the Playback of Content Located on Your PC with Your Smart Phone



(Only available with Samsung phones supporting AllShare functionality.)

1 · Connect the product, your PC, and your DLNA compatible cell phone to the same wireless network.

2 · Follow the directions in the AllShare software Installation/Instruction manual to set up devices and files for playing or viewing.

3 · On your computer, using the AllShare software, confirm your phone is connected.

4 · On the phone, select the file you want to view or play, and then select the Blu-ray product as the playback device.

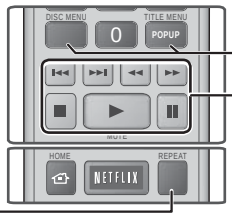
5 · On the phone, start playback.

HT-E4500_ZA_0417-1(D2D).indd 37 2012-04-17 오후 6:26:20

Controlling Video Playback

You can control the playback of video files located on Blu-ray, DVD, and CD discs, and on USB storage devices. Depending on the disc, some of the functions described in this manual may not be available.

Buttons on the Remote Control used for Video Playback



Repeat Playback

Repeat a Title or Chapter	1 · During playback, press the **REPEAT** button on the remote control. 2 · Press the ▲▼ buttons to select a **Chapter**, **All** or **Title**, then press the button. | NOTE | ▸ The screen may not display Chapter or Title immediately. Continue to press the ▲▼ buttons until your choice is inside the blue field. 3 · To return to normal play, press the **REPEAT** button again, press the ▲▼ buttons to select **Off**, and then press the button.
Repeat a Section	1 · During playback, press the **REPEAT** button on the remote control. 2 · Press the ▲▼ buttons to select **Repeat A-B**. | NOTE | ▸ The screen may not display Repeat A-B immediately. Continue to press the ▲▼ buttons until Repeat A-B is inside the blue field. 3 · Press the button at the point where you want repeat play to start (A). 4 · Press the button at the point where you want repeat play to stop (B). 5 · To return to normal play, press the **REPEAT** button again. 6 · Press the button. | NOTE | ▸ You must set point (B) at least 5 seconds of playing time after point (A).

Using the disc menu, title menu, popup menu and title list

DISC MENU	During playback, press this button to display the Disc menu.
TITLE MENU	During playback, press this button to display the Title menu. • If your disc has a playlist, press the **GREEN (B)** button to go to the playlist.
POPUP MENU	During playback, press this button to display the Pop-up menu.
DISC MENU or TITLE MENU	During playback, press this button to display the title list.

Playback related buttons

The product does not play sound in Search, Slow, or Step mode.

▶	Starts playback.
■	Stops playback.
❚❚	Pauses playback.
Fast Motion Play	During playback, press the ◀◀ or ▶▶ button. Each time you press the ◀◀ or ▶▶ button, the playback speed will change.
Slow Motion Play	In pause mode, press the ▶▶ button. Each time you press the ▶▶ button, the playback speed will change.
Step Motion Play	In pause mode, press the ❚❚ button. Each time you press the ❚❚ button, a new frame appears.
Skip Motion Play	During playback, press the ⏮ or ⏭ button. Each time you press ⏮ or ⏭ button, the disc moves to the previous or next chapter or file.

HT-E4500_ZA_0417-1(D2D).indd 38 2012-04-17 오후 6:26:23

Using the TOOLS Menu

During playback, press the **TOOLS** button.

Title Search **Time Search**	Select to move to a desired title if the disc has more than one title, to a desired scene, or, using Time Search, to a specific point in a movie or video. With Time Search, you designate the specific point by entering a time coordinate in the following format 00:00:00 (hours, minutes, seconds) using the remote.
Repeat Mode	Select to repeat a specific Title, Chapter (BD/DVD discs only) or marked section. Works the same as the **REPEAT** button. See page 38.
Full Screen	Select to set the desired full screen size. You can select Original, Mode1 (larger), and Mode2 (largest).
Picture Mode	Select to set the picture mode. - **Dynamic** : Choose this setting to increase sharpness. - **Standard** : Choose this setting for most viewing applications. - **Movie** : This is the best setting for watching movies. - **User** : Lets you adjust the sharpness and noise reduction function respectively. | NOTE | ▸ When you select User, the User Settings screen appears. Select an option, press ⏎, use the ◄► buttons to make an adjustment, and then press ⏎. Press the **RETURN** (↩) button to go back to the **TOOLS** menu. ▸ When you use the BD wise function, this menu will not appear.
Equalizer Mode	Select to use the Equalizer.
Equalizer Settings	Select to set the Equalizer. | NOTE | ▸ It only appears when equalizer mode is on.

Menu that appears only when BD/DVD disc plays

Play from the beginning	Select to play the movie from the beginning.
Chapter Search	Select to move to a chapter that you desire to watch.
Audio	Select to set the desired audio language. - You can also operate this function by pressing the **AUDIO** button on the remote control.
Subtitle	Select to set the desired subtitle language. - You can also operate this function by pressing the **SUBTITLE** button on the remote control.
Angle	To view a scene from another angle. The Angle option displays the number of angles available to view (1/1, 1/2, 1/3, etc.).
BONUSVIEW Video / BONUSVIEW Audio	Select to set the desired bonusview option.

Menu that appears only when a file plays

Go to Videos List	Move to video list screen.
Scene Search	Search the video file by the scene.
Information	Check the video file's information.

| NOTE |

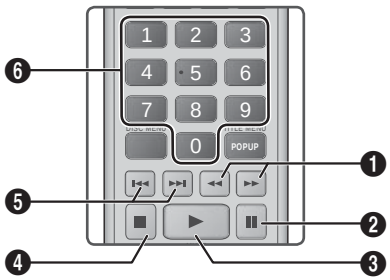
▸ Depending on the disc or storage device, the Tools menu may differ. All options may not be displayed.

HT-E4500_ZA_0417-1(D2D).indd 39 2012-04-17 오후 6:26:27

Controlling Music Playback

You can control the playback of music content located on a DVD, CD, or a USB storage device.

Buttons on the Remote Control used for Music Playback



1	**Fast Play (Audio CD (CD-DA) only)** During playback, press the ◀◀ or ▶▶ button. Each time you press the ◀◀ or ▶▶ button, the playback speed will change.
2	❚❚ button : Pause a track.
3	▶ button : Plays the currently selected track.
4	■ button : Stops a track.
5	**Skip** : During playback, press the ◀◀ or ▶▶ button to move to the previous or next music of listed.
6	**NUMBER** buttons : During Playlist playback, press the desired track number. The selected track is played.

Repeating Tracks on an Audio CD

You can set the product to repeat tracks on an audio CD (CD-DA/MP3).

1 · During playback, use the ► button to select ↻ in the lower right corner of the screen, and then press the ↵ button.

2 · Use the ▲▼ to select the repeat mode you want - **Off**, **One Song**, or **All** - and then press the ↵ button.

Shuffling Tracks on an Audio CD

You can set the product to play tracks on an audio CD (CD-DA/MP3) at random.

1 · During playback, use the ► button to select ⤮ in the lower right corner of the screen, and then press the ↵ button.

2 · Use the ▲▼ to set the **Shuffle Mode On** or **Off**, and then press the ↵ button.

Creating a Playlist

1 · With the Playback screen displayed, press the **TOOLS** button. The Tools menu appears.

2 · Use the ▲▼ buttons to select **Selection Play**, and then press the ↵ button. The Selection Play screen appears.

3 · Use the ▲▼ buttons to select a track, and then press the ↵ button. A check appears to the left of the track.

4 · Repeat Step 3 to select and check additional tracks.

5 · To remove a track from the list, move to the track, and then press the ↵ button again. The check on the track is removed.

6 · When done, press the ► button to select **Play**, and then press the ↵ button. The Music Playback screen reappears listing only the tracks you checked. The selected tracks play automatically.

| NOTE |

- You can create a playlist with up to 99 tracks on Audio CDs (CD-DA).
- If you have created a playlist, Selection Play is replaced by Edit Playlist on the Tools menu.
- On the Selection Play screen, you can also choose **Select All**, **Deselect All**, and **Cancel**.

HT-E4500_ZA_0417-1(D2D).indd 40 2012-04-17 오후 6:26:27

- Use **Select All** to select all tracks. This cancels your individual track selections. When you press the **RETURN** (↩) button on your remote or select **PLAY** and then press the ⏎ button, all tracks will appear on the Music Playback screen, and the product will begin to play all tracks from Track 001.
- Use **Deselect All** to deselect all selected tracks at once. Then, select individual tracks or use Select All to select all the tracks, and then press the **RETURN** (↩) button on your remote or select **PLAY** and then press the ⏎ button. If you do not use Select All or select individual tracks, the Playlist will not change.
- **Cancel** cancels any changes you made on the Play Select screen. When you return to the Playback screen, the Playlist will be unchanged.

Ripping

You can rip music from a music CD to a USB device inserted in the USB jack.

1 · Insert a USB device into the USB jack on the front of the product, and then press the **RETURN** (↩) button on your remote.
2 · Insert the disc you want to rip from into the product and close the disc tray.
3 · With the Playback screen displayed, press the **TOOLS** button. The Tools menu appears.
4 · Use the ▲▼ buttons to select **Rip**, and then press the ⏎ button. The Rip screen appears.
5 · Use the ▲▼ buttons to select a track, and then press the ⏎ button. A check appears to the left of the track.
6 · Repeat Step 5 to select and check additional tracks.
7 · To remove a track from the list, move to the track, and then press the ⏎ button again. The check on the track is removed.
8 · When done, press the ► button to select **Rip**, and then press the ⏎ button. The Rip pop-up appears.
9 · Press the ⏎ button to begin the ripping process. The Ripping Completion Bar pop-up appears.
10 · When ripping is complete, the "**Ripping is completed.**" message appears. Press the ⏎ button.
11 · Press the **RETURN** (↩) button to go back to the Playback screen.

| NOTE |

▸ When Ripping is done, a folder called MP is created in the USB.

Playing Photo Contents

You can play photo contents located on a DVD, USB, mobile device or PC.

Using the Tools Menu

During playback, press the **TOOLS** button.

Go to Photos List	Select to go to the list of photos on the current media.
Start Slide Show	Select to start the slide show.
Slide Show Speed	Select to set a slide show's speed.
Slide Show Effect	Select to set a slide show's special effects.
Background Music On	Select to listen to music while viewing a slide show.
Background Music Setting	Select to set the background music setting.
Picture Mode	Select to set the picture settings. - **Dynamic** : Choose to increase Sharpness. - **Standard** : Choose for most viewing applications. - **Movie** : This is the best setting for watching movies. - **User** : Lets you adjust the sharpness and noise reduction function respectively. | NOTE | ▸ When you use the BD wise function, this menu will not appear.
Zoom	Select to enlarge the current picture. (Enlarge up to 4 times)
Rotate	Select to rotate the picture. (This will rotate the picture either clockwise or counter clockwise.)
Information	Shows the picture information.

HT-E4500_ZA_0417-1(D2D).indd 41 2012-04-17 오후 6:26:38

| NOTE |

- Depending on the disc or storage device, the Tools menu may differ. All options may not be displayed.
- To enable the background music function, the photo file must be in the same storage media as the music file. However, the sound quality can be affected by the bitrate of the MP3 file, the size of the photo, and the encoding method.
- You can't enlarge the subtitle and PG graphic in the full screen mode.

Using the Tools Menu when a File is Highlighted

When a file is highlighted, press the **TOOLS** button.

View	Select to access the sort options: Artist, Genre, Monthly, Latest Date, etc. The sort options that appear depend on the storage and media type.
Folder view	Appears in the View function screen. Select to display the folders on the storage device.
Title	Appears on the View function screen. Select to sort all photo or video files on a storage device by title.
Artist	Appears on the View function screen. Select Artist to sort and then display all music tracks on a storage device by artist.
Album	Appears on the View function screen. Select Album to sort and then display all music tracks on a storage device by album.
Genre	Appears on the View function screen. Select Genre to sort and then display all music tracks on a storage device by genre.
Latest Date	Appears on the View function screen. Select to sort and then display all photo or video files on a storage device from the latest to earliest date.
Earliest Date	Appears on the View function screen. Select to sort and then display all photo or video files on a storage device from the earliest to latest date.
Monthly	Appears on the View function screen. Select to sort all photo or video files on a storage device by the month created.
Selection Play	Selection Play lets you select specific music, video, and photo files to play. It works essentially the same for all media. The example below is for photos. **1.** On the Thumbnail View screen, highlight a photo, and then press the **TOOLS** button on the remote. **2.** In the Tools menu, select **Selection Play**, and then press the ⏎ button. **3.** On the selection screen, use the ▲▼◄► buttons to select a photo you want to view, and then press the ⏎ button. A check mark appears to the left of the picture. **4.** Repeat Step 3 for each photo you want to view. **5.** To de-select a photo, highlight it, and then press the ⏎ button. **6.** When done, use the ◄► buttons to select Play, and then press the ⏎ button. A slide show containing the photos you selected begins. **7.** To pause the slide show, press the ⏎ button once. To restart the slide show, press the ⏎ button again. **8.** To stop the slide show, press the **RETURN** (↩) button. | NOTE | ▸ After the slide show begins, you can control the slide show by pressing the **TOOLS** button and displaying the Slide Show menu. See " Using the Tools Menu" page 41.

HT-E4500_ZA_0417-1(D2D).indd 42 2012-04-17 오후 6:26:39

Send	Select Send to upload selected files to Picasa, Facebook, Cloud Storage, N Drive, or Family Story. To use Send, you need to establish an account with the on-line site, and then log in using the Log In function. 1. Use the ▲▼◄► buttons to select a file, and then press the ⏎ button. 2. Repeat for each track or file you want to upload. | NOTE | ▸ You can also move to **Select All** on the right, and then press the ⏎ button to select all tracks or files. 3. Select **Send** on the right side, and then press the ⏎ button. 4. Use the ▲▼ buttons to select the on line site you want to upload the files or tracks to, and then press the ⏎ button.
Login / Out	The Log In/Out function lets you log in to your online Samsung account.
Add to Playlist	Select to create a playlist or add files or tracks to a playlist. 1. Select **Add to Playlist**, and then press the ⏎ button. 2. Use the ▲▼◄► buttons to highlight a track or file, and then press the ⏎ button. 3. Repeat for each track or file you want to add. 4. Select **Add** on the right, and then press the ⏎ button. 5. On the screen that appears, perform one of the following actions: • Select the Playlist to which you want to add the tracks or files and then press ⏎ button. • Select **Create New**, and then press the ⏎ button. On the keyboard pop-up that appears, create a name for the new playlist. Enter numbers using the numbers on the remote. Enter letters by using the ▲▼◄► buttons to move the cursor, and then pressing the ⏎ button. When finished, move to **DONE** at the bottom of the screen, and then press the ⏎ button.
Delete (Playlist)	Depending on the screen you are viewing, select Delete to erase a file from erasable media (such as a USB device) or to delete a playlist.
Edit Playlist	Select Edit Playlist to remove files or tracks from an existing playlist. The storage device containing the playlist must be inserted into or attached to the product. 1. Use the ▲▼◄► buttons to select a file, and then press the ⏎ button. 2. Repeat for each track or file you want to remove. | NOTE | ▸ You can also move to Select All on the right, and then press the ⏎ button to select all tracks or files. 3. Select **Remove** on the right side, and then press the ⏎ button.
Play Current Group	After you have sorted by Artist, Genre, Album,Title, Latest Date, Earliest Date, or Monthly, select a group that is the result of the sort (for example, all pictures taken in August), and then select Play Current Group to play or view the files in that group only.
Go to Playlist	Select to go to the Playlist section of the Main AllShare screen.

HT-E4500_ZA_0417-1(D2D).indd 43 2012-04-17 오후 6:26:40

Encoding	Encoding - which changes by language or by geographical area - modifies how the product sorts, arranges, and presents files or tracks, displays dates, etc. Select Encoding to change the encoding to match your language or geographical area.
Information	Displays media file and content information.

| NOTE |

- Depending on the disc or storage device, the Tools menu may differ. All options may not be displayed.

Listening to Radio

Using Buttons on the Remote Control

1 · Press the **FUNCTION** button to select **FM**.

2 · Tune in to the desired station.

- Preset Tuning 1 : Press the ■ button to select **PRESET** and then press the **TUNING/CH** (∧∨) button to select the preset station.
  - Before you can tune to preset stations, you must add preset stations to the product's memory.
- Manual Tuning : Press the ■ button to select **MANUAL** and then press the **TUNING/CH** (∧∨) button to tune in to a lower or higher frequency.
- Automatic Tuning : Press the ■ button to select **MANUAL** and then press and hold the **TUNING/CH** (∧∨) button to automatically search the band.

Setting Mono/Stereo

Press the **MO/ST** button.

- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select **MONO** for a clear, interference-free broadcast.

Presetting Stations

Example : Presetting FM 89.10 into memory.

1 · Press the **FUNCTION** button to select **FM**.

2 · Press the **TUNING/CH** (∧∨) button to select <89.10>.

3 · Press the **TUNER MEMORY** button.

- NUMBER flashes on the display.

4 · Press the **TUNER MEMORY** button again.

- Press the **TUNER MEMORY** button before NUMBER disappears from the display on its own.
- After you press the **TUNER MEMORY** button, NUMBER disappears from the display and the station is stored in memory.

5 · To preset another station, repeat steps 2 to 4.

- To tune in to a preset station, press the **TUNING/CH** (∧∨) button.

Using the Special Effects Remote Control Buttons

SOUND EFFECT Function	SOUND EFFECT

Lets you select a mode that optimizes the sound.

1. Press the **SOUND EFFECT** button.
2. Press the ▲▼ button to select the desired mode: **DSP**, **Dolby Pro Logic II** or **SFE Mode.**
3. Press the ◄► buttons to select the desired sound effect.

❑ **DSP**

MP3 Enhancer → Power Bass → Virtual 7.1 →Off

- **MP3 Enhancer** : Helps enhance your sound experience (ex. mp3 music). You can upscale your MP3 level sound (24 kHz, 8bit) to CD level sound (44.1 kHz, 16bit).
- **Power Bass** : Increases the volume level of bass tones and provides thudding sound effects.
- **Virtual 7.1** : Applies the 7.1 CH sound effect using the 5.1 CH speaker system.
- **Off** : Select this for normal listening.

HT-E4500_ZA_0417-1(D2D).indd 44 2012-04-17 오후 6:26:40

❑ Dolby Pro Logic II

Movie → Music → Game → Matrix → Prologic → Off

- **Movie** : Adds realism to a movie soundtrack.
- **Music** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **Game** : Enhances the excitement of the game's sound.
- **Matrix** : Select to hear multi channel surround sound.
- **Prologic** : Select to listen to a 2CH sound source in 5.1CH surround sound with all speakers active.
  - A specific speaker(s) may not output depending on the input signal.
- **Off** : Select this for normal listening.

❑ SFE Mode

Symphony Hall in Boston (Hall 1) → Philharmonic Hall in Bratislava (Hall 2) → Jazz Club in Seoul B → Church in Seoul → Amphitheater (Rock) → Off

- **Symphony Hall in Boston (Hall 1)** : Provides a clear vocal as if listening in a concert hall.
- **Philharmonic Hall in Bratislava (Hall 2)** : Also provides a clear vocal as if listening in a concert hall but, less powerful than HALL1.
- **Jazz Club in Seoul B** : Recommended setting for Jazz.
- **Church in Seoul** : Gives the feel of being in a grand church.
- **Amphitheater (Rock)** : Recommended setting for Rock.
- **Off** : Select this for normal listening.

3D Sound	3D SOUND

You can enjoy more natural and vivid surround sound with enriched tones by adjusting the depth of sound using the level options.

Off → High → Medium → Low

| NOTE |

- It is not available in **FM** mode.

Playing a 2D video in 3D mode	2D→3D

You can enjoy an ordinary 2D video in 3D mode.

| NOTE |

- If you move to the Home or Smart Hub Home menu in 3D mode, it will switch to 2D automatically.

HT-E4500_ZA_0417-1(D2D).indd 45 2012-04-17 오후 6:26:41

Network Services

You can enjoy various network services such as Smart Hub or BD-LIVE by connecting the product to your network.

To use network services, you must first:

1 · Connect the product to the network. (See page 20)

2 · Configure the network settings. (See pages 28~30)

Using Smart Hub

Using Smart Hub, you can download movies, videos, and music from the Internet, and access various for pay or free-of-charge applications and view them on your TV. Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

For instructions that explain how to use Smart Hub, follow these steps:

1 · Go to www.samsung.com.

2 · Click Support at the top of the page.

3 · On the Support page, enter the model number of your product into the Model Number field.

4 · On the page that appears, click Get downloads on the left side under Downloads. The Download Center appears.

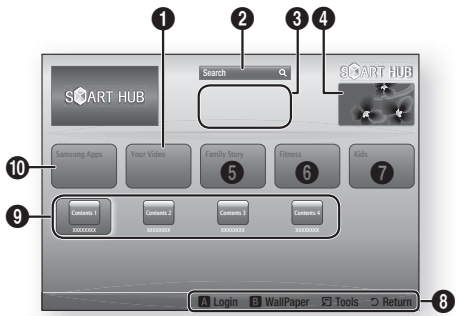
5 · On the Download Center page, click the Manuals tab.

6 · On the Manuals tab, click the file icon to the right of Smart Hub Users Manual. The manual downloads.

| NOTE |

▸ The web location of the Smart Hub manual is subject to change without notice.

Smart Hub at a Glance



1	**Your Video** : Provides recommendations for videos based on your tastes.
2	**Search** : Provides an integrated search of your video providers and connected AllShare devices.
3	**Recommended** : Displays recommended contents managed by Samsung.
4	**Commercial** : Displays the Smart Hub Guide, an introduction to the product, and new application introductions.
5	**Family Story** : An effortless way to access family content. • Provides access to family photos, messages, and events, anytime and anywhere.
6	**Fitness** : Gateway to the Unified Self-Care Service. • Presents fitness videos from various content partners with feedback on calories burned after every workout.
7	**Kids** : Kids service gives kids an easy and safe way to enjoy their favorite content. • Provides a wide variety of fun and safe content for children.
8	**Navigation Help** : Displays the remote control buttons you can use to navigate in Smart Hub. • **RED (A)** : To log in to Smart Hub. • **GREEN (B)** : To display the background screen. • **Tools** : To display the settings window. • **Return** : To return to the previous menu.

HT-E4500_ZA_0417-1(D2D).indd 46 2012-04-17 오후 6:26:41

❾	**My Applications** : Displays your personal gallery of applications which you can add to, modify, and delete.
❿	**Samsung Apps** : Open Samsung Apps to download various for pay or free-of-charge application services.

BD-LIVE™

Once the product is connected to your network, you can enjoy various movie-related service contents available on BD-LIVE compliant discs.

1 · Attach a USB memory stick to the USB jack on the front of the product, and then check its remaining memory. The memory device must have at least 1GB of free space to accommodate the BD-LIVE services.

2 · Select **Settings** on the Home screen, and then press the ⏎ button.

3 · Select **Network**, and then press the ⏎ button.

4 · Select **BD-Live Settings**, and then press the ⏎ button.

5 · Select **BD Data Management**, and then press the ⏎ button.

6 · Select **Select Device**, and then press the ⏎ button.

7 · Select **USB**, and then press the ⏎ button.

8 · Insert a Blu-ray Disc that supports BD-LIVE.

9 · Select an item from the list of BD-LIVE service contents provided by the disc manufacturer.

| NOTE |

- The way you use BD-LIVE and the provided contents may differ, depending on the disc manufacturer.

Using Disc to Digital

Access your movie collection via cloud storage anytime, any place without your DVD disc.
Go to www.samsungsupport.com for more detailed information.

| NOTE |

- You can access the Disc to Digital function by pressing the **Disc2Digital** button on your remote control.
- Samsung may add additional applications for this feature in the future.

HT-E4500_ZA_0418-1(D2D).indd 47 2012-04-18 오전 11:42:17

Additional Information

Note

Connections	HDMI OUT
	• Certain HDMI output resolutions may not work, depending on your TV. • You must have an HDMI connection to enjoy videos with 3D technology. • A long HDMI cable may cause screen noise. If this occurs, set **HDMI Deep Color** to **Off** in the menu.
Settings	3D Settings
	• For some 3D discs, to stop a movie during 3D playback, press the ■ button once. The movie stops and the 3D mode option is de-activated. To change a 3D option selection when you are playing a 3D movie, press the ■ button once. The Blu-ray menu appears. Press the ■ button again, then select 3D Settings in the Blu-ray menu. • Depending on the content and the position of the picture on your TV screen, you may see vertical black bars on the left side, right side, or both sides.
	TV Aspect
	• Depending on the disc type, some aspect ratios may not be available. • If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted. • If you select the **16:9 Original**, your TV may display **4:3 Pillarbox** (black bars on sides of picture).
	BD Wise (Samsung Products only)
	• When BD Wise is on, the Resolution setting automatically defaults to BD Wise and BD Wise appears in the Resolution menu. • If the product is connected to a device that does not support BD Wise, you can not use the BD Wise function. • For proper operation of BD Wise, set the BD Wise option in both the product and the TV to On.
	Digital Output
	• Be sure to select the correct Digital Output or you will hear no sound or just loud noise. • If the HDMI device (AV receiver, TV) is not compatible with compressed formats (Dolby digital, DTS), the audio signal outputs as PCM. • Regular DVDs do not have BONUSVIEW audio and Navigation Sound Effects. • Some Blu-ray Discs do not have BONUSVIEW audio and Navigation Sound Effects. • This Digital Output setup does not affect the analog (L/R) audio or HDMI audio output to your TV. It affects the optical and HDMI audio output when your product is connected to an AV receiver. • If you play MPEG audio soundtracks, the audio signal outputs as PCM regardless of your Digital Output selections (PCM or Bitstream).
	BD-LIVE Internet Connection
	• The Internet connection may be restricted while you are using BD-LIVE contents.

HT-E4500_ZA_0417-1(D2D).indd 48 2012-04-17 오후 6:26:44

Settings	Anynet+ (HDMI-CEC)
	• Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV. • This function is not available if the HDMI cable does not support CEC. • If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
	BD Data Management
	• In the external memory mode, disc playback may be stopped if you disconnect the USB device in the middle of playback. • Only those USB devices formatted in the FAT file system (DOS 8.3 volume label) are supported. We recommend you use USB devices that support USB 2.0 protocol with 4 MB/sec or faster read/write speed. • The Resume Play function may not work after you format the storage device. • The total memory available to BD Data Management may differ, depending on the conditions.
	Speaker Settings
	• When **Speaker Selection** is selected to **TV Speaker**, audio is produced through TV speakers.
	HDMI audio
	• When HDMI audio output to the TV speaker, it is automatically down-mixed to 2 channels.
	Audio Return Channel
	• When Anynet+ (HDMI-CEC) is Off, the Audio Return Channel function is not available. • Using an HDMI cable not certified for ARC (Audio Return Channel) may cause a compatibility problem. • The ARC function is only available if an ARC-compliant TV is connected.
	Digital Output
	• Digital Output can be activated when **Speaker Selection** is selected to **TV Speaker**.
Playback	Playing a Video files
	• Video files with high bitrates of 20Mbps or more strain the product's capabilities and may stop playing during playback.
	Selecting the Audio Language
	• The ◄► indicator will not appear on the screen if the BONUSVIEW section does not contain any BONUSVIEW audio settings. • The languages available through the Audio Language function depend on the languages that are encoded on the disc. This function or certain languages may not be available. • Some Blu-ray Discs may allow you to select either the PCM or Dolby digital audio soundtrack in English.

HT-E4500_ZA_0417-1(D2D).indd 49 2012-04-17 오후 6:26:44

Playback	Selecting the Subtitle Language
	• Depending on the Blu-ray Disc / DVD, you may be able to change the subtitle language in the Disc Menu. Press the **DISC MENU** button. • This function depends on the selection of subtitles that are encoded on the disc and may not be available on all Blu-ray Discs/DVDs. • Information about the main feature BONUSVIEW mode will also appear if the Blu-ray Disc has a BONUSVIEW section. • This function changes both the primary and secondary subtitles at the same time. • The total number of primary and secondary subtitles are displayed respectively.
	Playing a JPEG files
	• You can't enlarge the subtitle and PG graphic in the full screen mode.
AllShare Play	Dolby Pro Logic II Mode
	• Before selecting Dolby Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the product. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.
	Using the TOOLS button while playing pictures
	• If the system is connected to a BD Wise compliant TV that has set BD Wise to On, the Picture Settings menu will not appear. • The Background Music function will not work unless the music file and the photo file are located on the same storage media. Also, sound quality can be impacted by the bitrate of the MP3 music file, the size of the photos, and the encoding method.
	Playing back a USB Storage Device
	• You must remove the USB storage device safely (by performing the "**Safely Remove USB**" function) to prevent possible damage to the USB memory. Press the **HOME** button to move to the Home menu, select the **YELLOW (C)** button, and then press the ⏎ button.
	Playing Music
	• Adjust the volume to a moderate level before you connect your iPod to the product. • When the product is on and you connect an iPod, the product will charge the iPod's battery.
iPod	iPod/iPhone Models You Can Use with This Product
	• The volume control may not operate normally with iPod and iPhone models not listed on page 34. If you have a problem with any of the models listed above, please update the software of the iPod/iPhone to the lastest version. • Depending on the software version of the iPod, control problems may occur. This is not a malfunction of the Home Theater. • Depending on the software version or the type of iPod, some operations may differ. Install the latest iPod software. (recommended) • Playback of applications' contents through the product is not guaranteed. We recommend playing contents downloaded to the iPod. • If you have a problem using your iPod, please visit www.apple.com/support/ipod.

HT-E4500_ZA_0417-1(D2D).indd 50 2012-04-17 오후 6:26:45

Resolution according to the output mode

❑ Blu-ray Disc/E-contents/Digital Contents playback

Setup \ Output	HDMI/connected			HDMI/not connected
	HDMI Mode		VIDEO Mode	VIDEO Mode
	Blu-ray Disc	E-contents/ Digital contents		
BD Wise	Resolution of Blu-ray Disc	1080p@60F	480i	-
Auto	Max. Resolution of TV input	Max. Resolution of TV input	480i	-
1080p@60F	1080p@60F	1080p@60F	480i	-
Movie Frame : Auto (24Fs)	1080p@24F	1080p@24F	480i	-
1080i	1080i	1080i	480i	480i
720p	720p	720p	480i	480i
480p	480p	480p	480i	480i
480i	-	-	-	480i

❑ DVD playback

Setup \ Output	HDMI/connected		HDMI/not connected
	HDMI Mode	VIDEO Mode	VIDEO Mode
BD Wise	480i	480i	-
Auto	Max. Resolution of TV input	480i	-
1080p@60F	1080p@60F	480i	-
1080i	1080i	480i	480i
720p	720p	480i	480i
480p	480p	480i	480i
480i	-	-	480i

HT-E4500_ZA_0417-1(D2D).indd 51 2012-04-17 오후 6:26:46

Digital Output Selection

Setup		PCM	Bitstream (Unprocessed)	Bitstream (Re-encoded DTS)	Bitstream (Re-encoded Dolby D)
Connection		HDMI supported AV receiver			
Audio Stream on Blu-ray Disc	PCM	Up to PCM 7.1ch	PCM	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital	Up to PCM 7.1ch	Dolby Digital	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital Plus	Up to PCM 7.1ch	Dolby Digital Plus	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby TrueHD	Up to PCM 7.1ch	Dolby TrueHD	DTS re-encoded	Re-encoded Dolby Digital *
	DTS	Up to PCM 6.1ch	DTS	DTS re-encoded	Re-encoded Dolby Digital *
	DTS-HD High Resolution Audio	Up to PCM 7.1ch	DTS-HD High Resolution Audio	DTS re-encoded	Re-encoded Dolby Digital *
	DTS-HD Master Audio	Up to PCM 7.1ch	DTS-HD Master Audio	DTS re-encoded	Re-encoded Dolby Digital *
Audio Stream on DVD	PCM	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch
	Dolby Digital	Up to PCM 5.1ch	Dolby Digital	Dolby Digital	Dolby Digital
	DTS	Up to PCM 6.1ch	DTS	DTS	DTS
Definition for Blu-ray Disc	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects.	Outputs only the main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio or Navigation Sound Effects.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into Dolby digital bitstream or PCM.

* If the Source Stream is 2ch or mono, “Re-encoded Dolby D” Setting are not applied. Output will be PCM 2ch.

Blu-ray Discs may include three audio streams :

- Main Feature Audio : The audio soundtrack of the main feature.
- BONUSVIEW audio : An additional soundtrack such as the director or actor’s commentary.
- Navigation Sound Effects : When you choose some menu navigation, Navigation Sound Effects may sound. Navigation Sound Effects are different on each Blu-ray Disc.

HT-E4500_ZA_0417-1(D2D).indd 52 2012-04-17 오후 6:26:46

Troubleshooting

Refer to the table below when this product does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the product, disconnect the power cord, and contact Samsung Electronics at 1-800-SAMSUNG (1-800-726-7864).

Symptom	Check/Remedy
I cannot eject the disc.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
The iPod fails to connect.	• Check the condition of the iPod connector. • Keep the iPod software version up to date.
Playback does not start.	• Check the region number of the Blu-ray/DVD disc. Blu-ray/DVD disc purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this product. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• The home theater does not play sound during fast playback, slow playback,and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all 6.	• On certain Blu-ray/DVD discs, sound is output from the front speakers only. • Check if the speakers are connected properly. • Adjust the volume. • When listening to a CD, radio or TV, sound is output to the front speakers only.
Dolby Digital 5.1 CH Surround Sound is not produced.	• Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to Dolby Digital 5.1-CH in the information display?
The remote control does not work.	• Are you operating the remote within its operational range and within the proper angle relative to the sensor? • Are the batteries drained? • Have you selected the mode (TV/BD) functions of the remote control (TV or BD) correctly?
• The disc is rotating but no picture is produced. • Picture quality is poor and picture is shaking.	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
Audio language and subtitles do not work.	• Audio language and subtitles will not work if the disc does not contain them.

HT-E4500_ZA_0417-1(D2D).indd 53 2012-04-17 오후 6:26:47

Symptom	Check/Remedy
The menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
The aspect ratio cannot be changed.	• You can play 16:9 Blu-ray/DVD discs in 16:9 Full mode, 4:3 Letter Box mode, or 4:3 Pan-Scan mode, but 4:3 Blu-ray/DVD discs are played in 4:3 ratio only. Refer to the Blu-ray Disc jacket and then select the appropriate function.
• The product is not working. (Example: The power goes out or a strange noise is heard.) • The Product is not working normally.	• Press and hold the remote control's ■ button for 5 seconds in STANDBY mode. - Using the RESET function will erase all stored settings. Do not use this unless necessary.
You have forgotten the rating level password.	• With no disc in the product, press and hold the product's ■ button for longer than 5 seconds. **INIT** appears on the display and all settings will return to the default values. Then, press the **POWER** button. - Using the RESET function will erase all stored settings. Do not use this unless necessary.
Can't receive radio broadcasts.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
While listening to TV audio through the Product, no sound is heard.	• If the **OPEN/CLOSE** ▲ button is pressed while listening to TV audio using the D. IN or AUX functions, the Blu-ray/DVD disc functions are turned on and the TV audio is muted.
"Not Available" appears on screen.	• The features or action cannot be completed at this time because: 1. The Blu-ray/DVD disc's software restricts it. 2. The Blu-ray/DVD disc's software doesn't support the feature (e.g., angles) 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.
If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV.	• Press and hold the ■ button on front panel for more than 5 seconds with no disc inserted. All settings will revert to the factory settings.
No HDMI output.	• Check the connection between the TV and the HDMI jack of the product. • Check if your TV supports 480p/720p/1080i/1080p HDMI input resolution.
Abnormal HDMI output screen.	• If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

HT-E4500_ZA_0417-1(D2D).indd 54 2012-04-17 오후 6:26:47

Symptom	Check/Remedy
AllShare Play function	
I can see folders shared through AllShare Play, but I cannot see the files.	• AllShare Play shows only files corresponding to the Photo, Music, and Movie categories. Files that do not correspond to these categories may not be displayed.
Video is played intermittently.	• Check if the network is stable. • Check if the network cable is properly connected and if the network is not overloaded. • The wireless connection between the server and the product is unstable. Check the connection.
The AllShare Play connection between the TV and PC is unstable.	• IP address under the same subnetwork should be unique, otherwise IP collision can results in such a phenomenon. • Check if you have a firewall enabled. If so, disable the firewall function.
BD-LIVE	
I cannot connect to the BD-LIVE server.	• Test whether the network connection is successful by using the Network Status function. • Check whether a USB memory device is connected to the product. • The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 49) • See if the BD-LIVE Internet Connection option is set to Allow(All). • If all above fails, contact the contents provider or update to the latest firmware.
When using the BD-LIVE service, an error occurs.	• The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 49)

| NOTE |

▸ When the factory default settings are restored, all stored user BD data will be deleted.

Repairs

If you contact us to repair your product, an administration fee may be charged if either:

1. An engineer is called out to your home at your request and there is no defect in the product.
2. You bring the unit to a repair center and there is no defect in the product.

We will provide you with the amount of the administration fee before we make a home visit or begin any work on your product.
We recommend you read this manually thoroughly, search for a solution on line at www.samsung.com, or contact Samsung Customer Care at 1-800-SAMSUNG (726-7864) before seeking to repair your product.

HT-E4500_ZA_0417-1(D2D).indd 55 2012-04-17 오후 6:26:48

Specifications

General	Power Requirements	AC 120V, 60Hz
	Power Consumption	92.2 W
	Weight	5.5 lbs
	Dimensions	16.9 (W) x 2.0 (H) x 9.8 (D) inches
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
FM Tuner	Signal/noise ratio	55 dB
	Usable sensitivity	12 dB
	Total harmonic distortion	0.5 %
Disc	BD (Blu-ray Disc)	Reading Speed : 9.834 m/sec
	DVD (Digital Versatile Disc)	Reading Speed : 6.98 ~ 7.68 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 5 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
	CD : 3 1/2 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
		Blu-ray Disc : 480i DVD : 480i
Video/Audio	HDMI	1080p, 1080i, 720p, 480p
		PCM multichannel audio, Bitstream audio, PCM audio
Amplifier	Front speaker output	165W x 2(3Ω)
	Center speaker output	170W(3Ω)
	Surround speaker output	165W x 2(3Ω)
	Subwoofer speaker output	170W(3Ω)
	Frequency response	Analog input 20Hz~20kHz (±3dB)
		Digital input 20Hz~40kHz (±4dB)
	S/N Ratio	70dB
	Channel separation	60dB
	Input sensitivity	(AUX)500mV

HT-E4500_ZA_0417-1(D2D).indd 56 2012-04-17 오후 6:26:49

Speaker	Speaker system	5.1ch speaker system			
		Front	Surround	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20kHz	140Hz~20kHz	140Hz~20kHz	40Hz ~ 160Hz
	Output sound pressure level	87dB/W/M	87dB/W/M	87dB/W/M	88dB/W/M
	Rated input	165W	165W	170W	170W
	Maximum input	330W	330W	340W	340W
	Dimensions (W x H x D)	Front : 3.54 x 5.47 x 2.75 inches Surround : 3.03 x 4.21 x 2.67 inches Center : 8.97 x 3.03 x 2.75 inches Subwoofer : 6.61 x 13.78 x 11.22 inches			
	Weights	Front : 0.88 lbs, Surround : 0.84 lbs Center : 1.1 lbs, Subwoofer : 8.09 lbs			

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.
- Design and specifications are subject to change without prior notice.
- Dispose unwanted electronics through an approved recycler.
  To find the nearest recycling location, go to our website: www.samsung.com/recyclingdirect or call, (877) 278 - 0799

HT-E4500_ZA_0417-1(D2D).indd 57 2012-04-17 오후 6:26:49

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts and Labor*
(*90 Days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

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To obtain warranty service, please contact SAMSUNG customer care center.

QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT	WRITE
IN THE US	1-800-SAMSUNG (726-7864)	www.samsung.com	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112

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